

# The CHEMIST AND DRUGGIST

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 2941  
VOL. CXXIV

JUNE 20, 1936

Annual Subscription (with  
Diary) 20/- Single Copies 9d.

Doctors'  
Scripts  
which  
specify



### Trade Prices

3 yds. long stretching to  
5/6 yds.

2½" wide - 22/- doz.  
3" " - 26/- "

"Elastic Adhesive Bandage" should be dispensed with Paragon N.H.I. Elastic Adhesive Bandage. Paragon N.H.I. Bandage conforms to the N.H.I. specification, and is made by T. J. Smith & Nephew, Ltd., the Makers of the famous Elastoplast Bandage.

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'NEKO' sells readily as :  
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PREVENTIVE  
A PERSPIRATION  
DEODORANT  
A SICK-ROOM  
DISINFECTANT  
AN ANTISEPTIC  
SKIN-SOAP  
AN INSECT-BITE  
PREVENTIVE  
A FOOT SOAP, Etc., Etc.

a line for  
PHARMACISTS  
ONLY—  
*Send for terms*

PARKE, DAVIS & CO., 50 BEAK STREET, LONDON. W.1.



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**4/- DOZ.**

COMBINATION PENCILS. All at 4/- per doz.

- No. 1. B.P. Tincture of Iodine & Styptic.  
 No. 2. Stainless do. & Styptic.  
 No. 5. Insect Bite Lotion & Styptic.

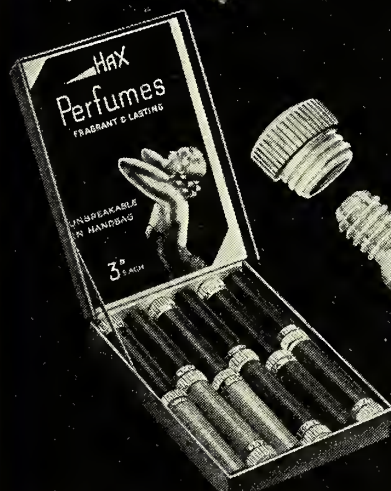
## A NEW LINE

FOR THE  
SUMMER SEASON

PENCIL No. 5

## ANTI-MIDGE & STING

SUPPLIED 1 Doz. ON NEW  
ATTRACTIVE SHOWCARD  
or BOXED



**2/- DOZ.**

SINGLE PENCILS. 2/- doz.

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 No. 11. Stainless do. Iodine.  
 No. 12. Ten. B.P. 5grain Aspirin.  
 No. 14. Assorted Perfumes.

Eau de Cologne. O'Desire.  
 O'Divine. O'Delusive.  
 Lavender. Honeysuckle.  
 Gardenia. Violet.  
 Jasmin. Sweet Pea.  
 Lilac. Rose.

Order to-day from your Wholesaler.

**EDWARD HACK, Ltd.**

73 to 78 High Holborn, London, W.C.1

Holborn 1000, 4000, 6000, 9000

**2/- DOZ.**



**ONLY ONE MORE WEEK  
TO GET  
SPECIAL BONUS TERMS**



ON

**MARSHALL'S**  
**THE ORIGINAL**  
**LYSOL**  
MADE IN ENGLAND

**SEND YOUR  
ORDER  
TO-DAY**

The MARSHALL'S "C.F." Bonus Offer closes definitely on JUNE 30th. Do not miss the opportunity to make up to 51% profit on this important "C.F." line.

Push MARSHALL'S Lysol—the original—the most profitable—the chemists only LYSOL. Send your order to-day or ask for particulars and order form.

LYSOL LTD. RAYNES PARK LONDON, S.W.20



# LINK-UP WITH OUR NATIONAL ADVERTISING CAMPAIGN AND PROVE YOURSELF THAT AZIADÉ COMPACT PERFUMES SELL WHERE THEY ARE SHOWN

ORDER FROM YOUR WHOLESALER.  
SEND TO US FOR NEW DISPLAY MATERIAL—IT IS INCREASING SALES

## AZIADÉ COMPACT PERFUMES are packed READY FOR DISPLAY

in standard assortments or  
to your special requirements.

2/6 (de luxe) size, 20/- per dozen

1/6 (double) „ 12/- „ „

1/- „ 8/- „ „

BONUS of 13 to dozen on  
orders of 6 dozen, makes  
your discount 42½%.

Perfumes : Lilac, Jasmin,  
Violet, Lily of the Valley,  
Rose, Sweet Pea, Chypre,  
Lavender, Gardenia,  
Wallflower, Carnation,  
Spring Flowers, also Mi-  
mosa, Narcissus,  
Santal, Eau de  
Cologne.

Be SURE  
your goods  
reach YOU  
in these  
boxes. Your  
wholesaler  
HAS them.



Send us a post-  
card for this new  
showcard—it is  
proving a splen-  
did salesman.



CUSTOMER AND  
OUR  
ADVERTISING

DISPLAY IS THE LINK  
BETWEEN  
YOUR

### AZIADÉ LIMITED

172 BUCKINGHAM PALACE ROAD, LONDON, S.W.1

# WHEN DOES ADVERTISING HELP THE RETAILER MOST? ★

★ Advertising helps the retailer who understands advertising. The more he knows about advertising the better he can decide wisely when a traveller urges him to stock goods 'because they are advertised.' That is why the facts below are worth your attention.

**ON THIS PAGE** is a list of products sold through your trade which are regularly advertised in the Radio Times. A demand for them is assured, for advertising in the Radio Times not only reaches almost one in four of all families in Great Britain but those families *respond* to the advertising. This is because of the unique circumstances in which the Radio Times is looked at. It is constantly referred to for programmes by the whole family for seven days in every week. Every time the question 'What's

on?' is raised the Radio Times is opened. During an evening it is near at hand ready to read when an interval between wireless items has to be 'filled in.' It is always being looked at when readers' minds are unoccupied and therefore receptive to the advertisements. That the Radio Times reaches people with money to spend is confirmed by an advertising agent who writes: 'The Radio Times, judging from tangible results, is a medium particularly well read by households of a good class.'

## *The* **RADIO TIMES** *List for your trade*

*The advertisers below regularly use the Radio Times and are therefore assured of a steady demand. The second half of this list will be published in the next Radio Times announcement appearing in this journal*

### Radio Times readers respond to advertising

FEEN-A-MINT  
ICILMA  
SAL-HEPATICA  
PONDS COLD CREAM  
VINOLIA SOAP  
VENOS COUGH CURE  
SILVIKRIN  
YARDLEY LAVENDER WATER  
VIONASE  
GIBBS DENTIFRICE  
SILF · HARLENE  
GIBBS SHAVING CREAM  
DETTOL

ROBINSONS PATENT BARLEY  
GERMOLENE  
IZAL  
HALEX BRUSHES  
JEYES FLUID  
CICFA  
IRVONA  
ERASMIC SHAVING STICK  
LUX TOILET SOAP  
CALIFORNIAN POPPY PERFUME  
CROOKES HALIBUT LIVER OIL  
VIROL  
ROBINSONS LEMON BARLEY WATER

KLEENEX  
KALZANA  
FEAR'S GOLDEN GLORY SOAP  
THERMOGENE VAFOUR RUB  
PALMO-IVE  
JOCIGARES  
SLOANS LINIMENT  
ANDREWS LIVER SALT  
LADY GAY PERFUME  
MOORLANDS TABLETS  
SELO FILMS  
PHOSFERINE  
OATINE VANISHING CREAM

GOODS SELL QUICKLY WHEN THEY'RE ADVERTISED IN THE

# RADIO TIMES

GUARANTEED AVERAGE NET SALES FOR 1936—2,600,000 PER WEEK



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# Methylated Spirits

Prompt delivery  
from local branches  
thus obviating delay

## THE METHYLATING COMPANY LTD.

Regd. Office : Kinnaird House, Pall Mall East, London, S.W.1

WIRES : "METHCOLIM, PHONE, LONDON"

PHONE : WHITEHALL 6964

Branches at London,  
Birmingham, Liverpool,  
Manchester, Bristol,  
Glasgow, Leith, Hull



ALL CONTAINERS BEAR

THIS TRADE MARK

Please ask for our Price List  
and Pamphlet on Methylated  
Spirits Regulations

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# Everything in Photographics

FOR  
**ALL DEALERS**  
ON THE APPROVED LIST OF  
**PHOTOGRAPHIC DEALERS**

**SPECIAL NOTE**  
We carry stocks of  
"CORONET" "ENSIGN"  
"SOHO" and other Cameras,  
"AGFA," "ENSIGN," "SELO,"  
and other films and all photo-  
graphic requisites

WRITE FOR PRICE LIST  
*Please remember that all your requirements may be  
obtained from*

## John Thompson Ltd.

(WHOLESALE  
DRUGGISTS, 1921)  
APPROVED PHOTOGRAPHIC DEALERS  
27-35 DUKE ST., LIVERPOOL  
Telegrams: 'Drugs' L'pool. Telephone: Royal 1434 (6 lines)



**NOW..**  
the first & only

**ALL  
BRITISH  
FILM**

**NURO FILM**

*Sensitive as Sight—British as the Flag*

The only **FOUR-EXPOSURE FILM**  
selling at 6d. per spool ( $2\frac{1}{4} \times 3\frac{1}{4}$ )

Nuro (Biggleswade) Ltd., who introduce a better film made for the first time entirely in Britain, bring a new popular roll film retailing at 6d. per spool. Serious amateurs, using the now popular miniature cameras, are finding this 4-exposure NURO Film supplies a real need, as they can take 8 exposures of the miniature size. NURO Film, is, of course, also available in all the standard sizes.

**DISTRIBUTION** is confined to chemists and photographic trade, and supplies may be obtained from the specially appointed NURO wholesale agents. Names and addresses on application.

**SPEED**  
**27°**  
**SCHEINER**

**NURO (Biggleswade) LTD.**

**BIGGLESWADE • BEDS • ENGLAND**

Phone: Biggleswade 234 Grams: "NURO," Biggleswade



WINDOW AND  
COUNTER DIS-  
PLAY MATERIAL  
can be obtained  
direct, or  
THROUGH  
YOUR  
WHOLESALE

S & B4a

**4 EXPOSURE**

**SPOOLS ( $2\frac{1}{4} \times 3\frac{1}{4}$ ) 6<sup>D</sup> PER SPOOL**



# KURBOIL TABLETS

*A preparation consisting of Tin and Tin Oxide, for oral administration in the treatment of Boils*



**SHOWCARDS** AS ILLUSTRATED **FREE FOR WINDOW DISPLAY**

Tubes of 50 cartoned, packed in one dozen show outers, per  $7/6$  dozen

RETAIL  $1\frac{1}{3}$  TUBE



**ARTHUR H. COX & Co. Ltd**  
Manufacturing Chemists **BRIGHTON**

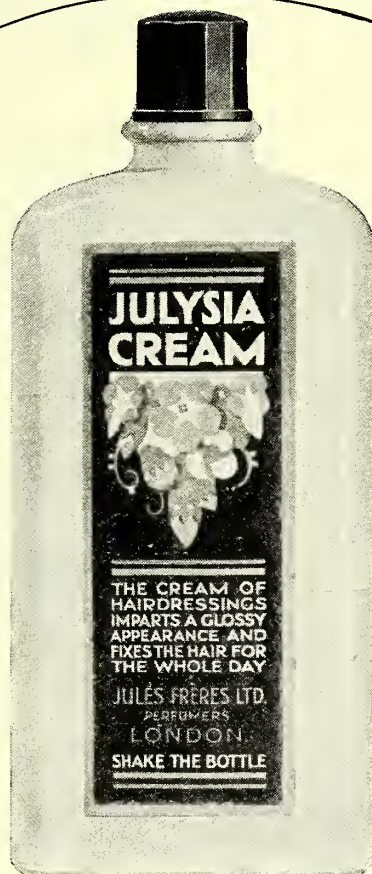


**For QUICK SALES, TERMS, PROFITS and LARGE  
TURNOVER — THERE IS NO COMPARISON!**

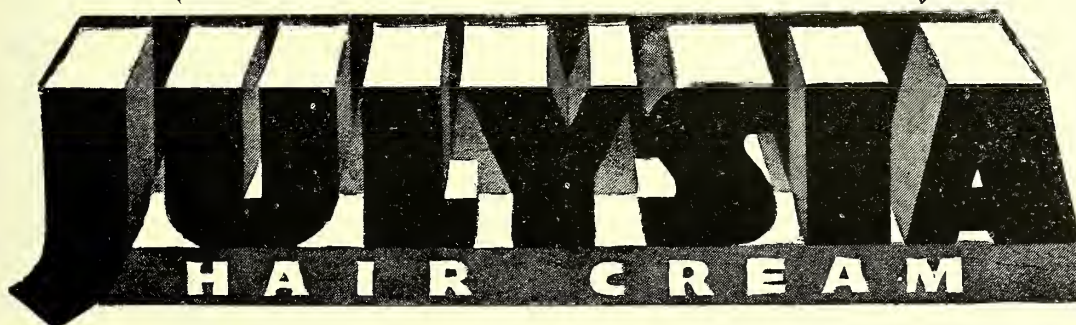
**BONUS TERMS** show over **60%**  
**PROFIT**

**on cost**

*Most extensively  
advertised in the  
National Press*



*Attractive sales-  
compelling show  
material on request*



**WRITE FOR LEAFLET**

**"ROOM 6" JULES FRÈRES, LTD.**

154-164 WALWORTH ROAD, LONDON, S.E.17 PHONE: RODNEY 4171

# SODIUM MANDELATE

(Evans)

For the treatment of urinary infections  
An effective alternative to the ketogenic diet  
Issued in powder and tablet form

*Also in*

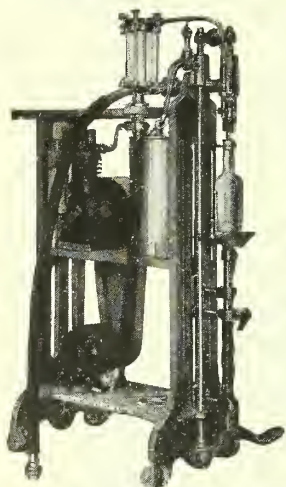
Complete outfits (sufficient for 12 days' treatment) containing tablets of Sodium mandelate, capsules of Ammonium chloride, colour indicator and urine tube.

*Special terms for bulk quantities*

PREPARED AT EVANS BIOLOGICAL INSTITUTE  
BY

**Evans Sons Lescher & Webb Ltd.**  
LIVERPOOL LONDON, E.C.1

## ROBERTS' PATENT "LEO" VACUUM FILLER



for Glass, Stone,  
and Tin Bottles.  
Fills all sizes from  
drachm to quart—  
long, short or  
sprinkler neck.

**Clean and Rapid  
No Over Filling  
Broken Bottles  
Rejected  
Easy to Clean  
Self Rinsing**

**WRITE FOR  
PARTICULARS**

**Roberts' Patent Filling Machine Co.**

T. ROBERTS, Proprietor,

**33 Roundcroft Street, Bolton, Lancashire**

Makers of every description of Bottle Filling and Shallow  
Jar and Tin Filling Machine for the Chemists' use

ALL RIGHTS RESERVED

**DON'T  
MISS SALES—**  
be sure and stock  
**"BARLOVA"**

The nourishing food-beverage  
"BARLOVA" is a delicious  
beverage prepared from  
the best Malt—Milk and  
Eggs

Retails in three sizes :—  
Price 6d., 1/3 and 3/6

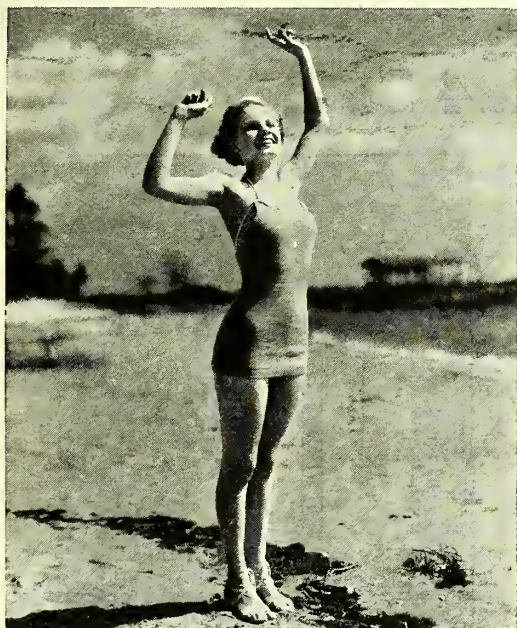
Your wholesaler stocks, include a  
trial dozen with your next order, or  
write us to-day for trade samples.  
Ample advertising, printed literature  
and window display material available.

**NOBBY'S PRODUCTS Ltd.**  
HYDE, CHESHIRE  
Phone: Hyde 329

# BARLOVA

**FOOD DRINK OF HEALTH**





# MAW LEADS SUMMER FASHION NEWS FOR 1936

Today Maw offers a dynamic range of Summer Fashion Sundries. Maw stylists have designed some of the smartest numbers the trade has ever known. Never before have styling, packing and presentation been faithfully welded into such a unique range.

If you stock any of the undermentioned goods you must see the Maw representative on his next visit. Be sure, too, to read the Maw M.S.S. in its latest style. It brings you regularly all the news about the Maw business, with beautiful illustrations and adequate descriptions of our latest lines.

The Maw 1936 Summer Goods Programme is breaking all records!

## 1936 SUMMER FASHION RANGE

- |                               |                                  |
|-------------------------------|----------------------------------|
| ● MERITOR TOILET BRUSHWARE    | ● WALT DISNEY TOOTHBRUSHES       |
| ● MERITOR TOILET PREPARATIONS | ● MICKEY MOUSE WATERPROOF APRONS |
| ● MAW 1936 WATERPROOF RANGE   | ● MAW 1936 SUN GOGGLES           |
| ● MAW 1936 SWIMCAP RANGE      | ● MAW 1936 WASHING SQUARES       |
| ● MAW 1936 POWDER PUFFS       | ● MAW 1936 COMB RANGE            |
| ● MAW 1936 VANITY COMPACTS    | ● MAW FANCY AND NATURAL SPONGE   |
| ● WALT DISNEY T.B. HOLDERS    |                                  |

★ **BE SURE TO VISIT OUR LONDON SHOWROOMS OR  
ONE OF OUR SUMMER OR CHRISTMAS EXHIBITIONS  
IN YOUR NEAREST CITY DURING 1936.**

# La Reine des Crèmes SPECIALITIES

## La Reine des Crèmes

The Queen of Creams.

The day and night cream in one.

In tubes :  
6d., 1/3, 2/-

## La Reine des Crèmes Red Band

Special for greasy skins.

and

## La Reine des Crèmes Green Band

Unscented.

In pots :  
1/9, 2/6, 4/6  
8/6.

## Mousse de Fleurs

### Vanishing

Lilac, Lily, Rose, Violet, Carnation, Lavender, Lemon, Cucumber.

In jars :  
2/3, 3/3.

## Veloute de Pêche

### Vanishing

White or Salmon.

## Crème Mauresque

### Suntan

Handreine for beauty of the hands.

In tubes 6d., 1/-.

## La Reine des Crèmes Soap de Luxe

1/- per tablet.

## La Reine des Poudres

2/3

## La Reine des Crèmes

Face 1/3

## La Reine Flo

6d.

Ten exclusive shades :

Rachel, Naturelle, Chair, Ocre Rachel, Ocre Naturelle, Ocre Foncé, Rose Emoi, Bois de Rose, Rose, White.

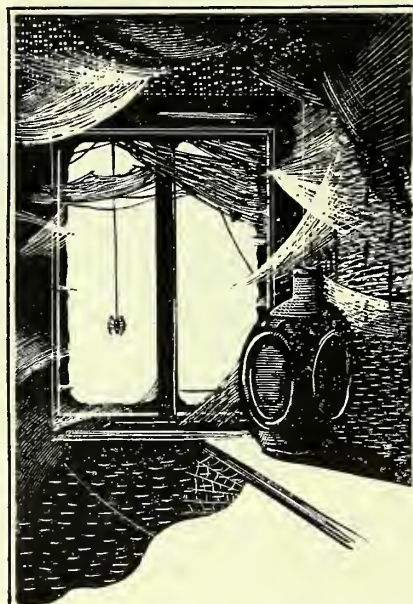
See shade card.

Of all wholesalers or from the Manufacturer :

**REINE des CRÈMES, Ltd.**  
Mount Pleasant, Alperton, Middlesex

## TALKS ON GLASS BOTTLES

### No. 4 Storage



## SPIDERS' WEBS

The "spiders' web" weathering effect observed inside many glass bottles after storage under certain conditions of temperature and humidity, is a source of concern to those who purchase them. Glass of low resistance is very susceptible to this effect, some glasses being so poor that they develop, in fact, a greasy film instead of the "spiders' web" effect.

The glass which is used in all Beatson, Clark bottles is of high durability and resistance to chemical attack, and has, therefore, very low susceptibility to the "spiders' web" defect on storage.

Where glass bottles have to be stored, and also for export use, this quality will be found to add materially to their appearance and utility.

In such cases, specify Beatson, Clark Glass Bottles.

**BEATSON, CLARK & CO., LTD.**

MANUFACTURERS OF

*Chemical & Medical Glass*  
**ROTHERHAM YORKS.**

ESTABLISHED 1751



**HAND MADE**  
**SUPER RAZOR BLADES**  
*These are best sellers!*

1<sup>st</sup> EACH 2<sup>nd</sup> EACH 3<sup>rd</sup> EACH

**Rydere's** **HARDHEAD** **HUSSAR**

**YOUR OWN TRADE MARK**

WHOLESALEERS—  
 We specialise in the production of blades under your own name—send us particulars stating quality & quantity of blades you are interested in—on offer with free samples will be sent per return.

**RYDERS LTD.**  
 RYDENE WORKS, DUKES RD, WESTERN AV, ACTON, W.3

ORDER NOW EITHER THROUGH YOUR WHOLESALE OR DIRECT.  
 (Samples with name of nearest wholesaler gladly sent on request.)

Ask your Wholesaler or representative will call.

'Phone: Macaulay 5086.

Cables: "SIMIE-BRUSH," LONDON.

**SIMPSON'S**  
 Gold Medal Shaving Brushes  
 53, CLAPHAM HIGH STREET  
 LONDON, S.W.4

**INCREASE YOUR SHAVING BRUSH SALES**



## A BRAND-NEW LINE



**WITH A BRAND-NEW appeal!**

Here is the new denture paste with the TWO-FOLD appeal to every denture wearer. Its dual-action makes it unique in its class.

Formulated by an eminent dental surgeon, Bertram's Denture Paste instantly removes the heaviest deposits and, with only 30 seconds' daily use, keeps dentures permanently clean and sterilised. Many dentists are already giving it their full support. Ready sales, with continuous repeats, are assured for every stockist. Protected Retail Prices 6d. & 1/3. Send your inquiry TODAY to GASKELL Ltd. (C.&D.) 273-287, Regent Street, London, W.1

**SEND FOR DETAILS & TERMS!**

**£50**

**IN CASH PRIZES FOR SLOGANS**  
 will stimulate public interest and assure additional sales.

**GENEROUS ADVERTISING**  
 will create a big demand for this great new line, bringing immediate sales to every stockist. Be prepared. Stock up, NOW.

**WATCH SALES SOAR!**

**WATCH YOUR STOCKS!**

New National Advertising Campaign to consolidate the success of **MORNING PRIDE**

"Morning Pride" has taken premier place in the shaving cream market. First in public favour "Morning Pride" is second to none in rapidly increasing sales.

Look to your stocks and be sure of your share of profits from this new wonder shaving cream.



**WATCH FOR THEM IN—**

London Evening Standard  
 Sunday Express  
 Sunday Dispatch  
 Sunday Chronicle  
 Sunday Times  
 John Bull  
 Sunday Mail  
 Sunday Post  
 Sunday Weekly Herald  
 Glasgow Field  
 Scottish Tit Bits

**MORNING PRIDE**  
 REGD.

**THE RAZOR READY BRUSHLESS SHAVING CREAM**  
 PRODUCT OF FAIRY DYES LTD., PHARMACEUTICAL DEPT.

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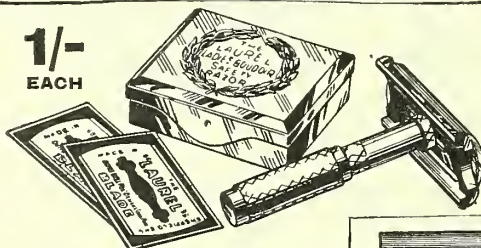
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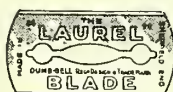
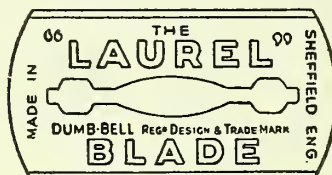
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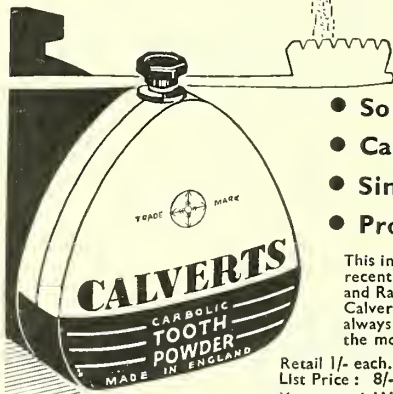
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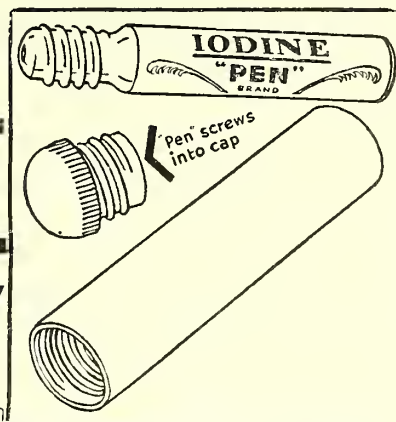
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Thanking you in anticipation,

We remain,

Yours faithfully,  
Battles (Chemists) Lincoln



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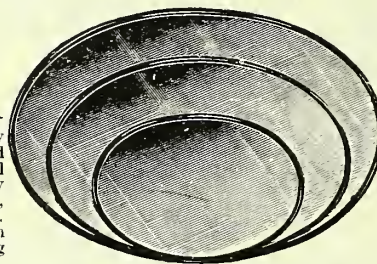


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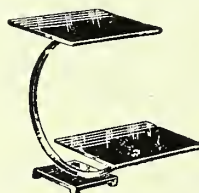
Height	Brown Bronze Finish	Chromium Plate Finish
9-in.	1/3 each	2/6 each
12-in.	1/6 "	3/— "
15-in.	1/9 "	3/9 "
18-in.	2/3 "	4/6 "
21-in.	2/9 "	5/3 "
24-in.	3/3 "	6/— "
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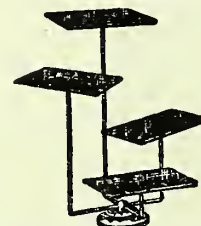
Size	Clear Glass	Black Opal Glass
9" x 5"	1/4 each	1/5 each
10" x 7"	1/5 "	1/6 "
12" x 9"	1/6 "	1/9 "
14" x 10"	2/2 "	2/8 "
16" x 9"	2/6 "	3/— "
18" x 12"	3/6 "	4/3 "
20" x 13"	4/— "	5/3 "
24" x 18"	5/9 "	7/3 "



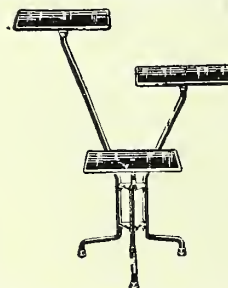
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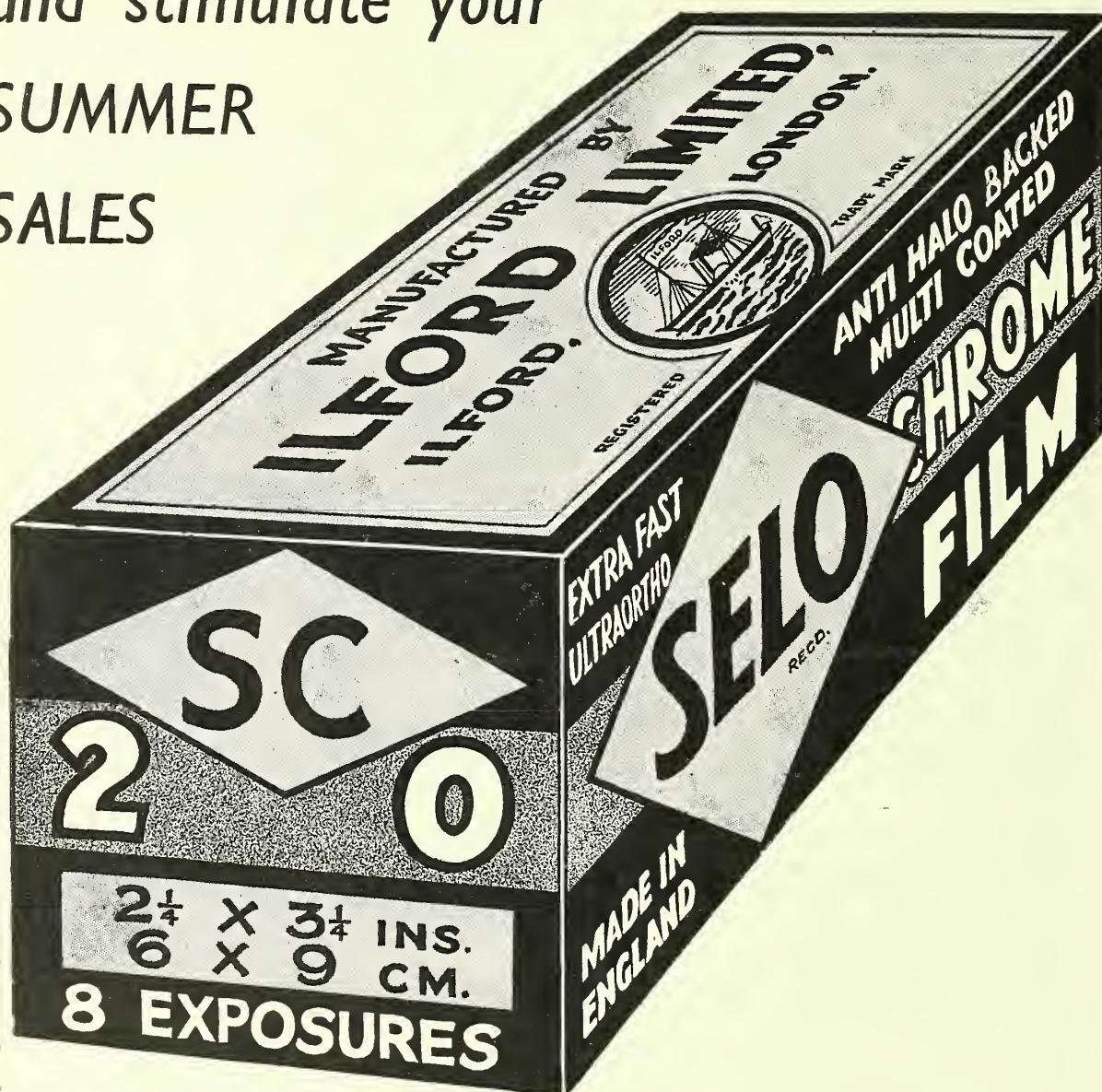
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## News of the Week

### Import Duties Advisory Committee Notice

The Import Duties Advisory Committee have under consideration the question whether the existing free list heading relating to potassium products should be amended to the following:—"Potassium carbonate; potassium chloride; potassium sulphate; kainite and other potassium fertiliser salts, whether mineral or not."

Any representation which interested parties may desire to make in regard to any of these matters should be addressed in writing to the Secretary, Import Duties Advisory Committee, Caxton House (West Block), Tothill Street, Westminster, London, S.W.1, not later than July 6, 1936.

### Sessional Events

At the recent meeting of the Southend and District Branch of the Society the following officers were elected:—*Chairman*, Mr. B. Baker; *Vice-Chairman*, Mr. D. L. I. Shore; *Treasurer*, Mr. O. T. French; *Secretary*, Mr. E. B. Bunting.

About sixty members of the Leeds and District Branch of the Pharmacists' Society met at the Metropole Hotel on June 11, Mr. W. Eadie in the chair. Discussion was general on a number of topical questions, and special interest was taken in the subjects of territorial representation and apprenticeship. The resolutions to be proposed at the Bournemouth Conference from the Leeds and District Branch were ratified.

### Outings

Excellent weather accompanied the Birkenhead and Wirral Pharmacists' Association on their annual summer outing to Lilleshall Hall on June 11. A party of over forty, includ-

ing the president (Mr. P. Grant) and Councillor Mrs. Grant, left Birkenhead by motor coach. After tea the visitors toured the beautiful grounds and estate.

The annual outing of the Warwickshire Branch of the Pharmaceutical Society took place in beautiful weather on June 11. Leaving Coventry at midday and picking up members at Kenilworth, Leamington Spa and Stratford-on-Avon, a halt was made at Chipping Campden to view the church and its historic surroundings. Afterwards a tour of the most beautiful part of the Cotswold country was made, and tea was taken at Birdlip. After tea and a few remarks from the chairman, a collection was made for the Benevolent Fund. Returning home through Cheltenham, up Cleve Hill, through Wynchecombe, Broadway and Mickleton, Leamington was reached at 9.0, after what was unanimously voted the most pleasant trip of the series.

Sunshine followed a morning of torrential rain as the West Kent Branch of the Pharmaceutical Society left Bromley Market Square by motor coach on June 3. Proceeding along the picturesque arterial road to Maidstone, the banks of the Medway were reached at about 3.30. Here a welcome awaited the party from Mr. French, and without delay a motor launch was boarded. There followed a delightful trip down the river, negotiation of several locks lending variety to its course. Justice was done to tea at the old Anchor Inn, with its beautiful gardens, at Yalding. In the cool of the evening a tour was made of some of the prettiest parts of Kent, including Ightham, Seal, Otford, and Eynsford. An interesting detour was made to Offham, where the coach stopped to enable members to inspect the historic "quintain," believed to be the only remaining specimen in England.

## Sporting Events

The annual international bowling match of the United Commercial Travellers' Association was played at Trent Bridge Bowling Green, Nottingham, recently. The Higbert trophy was won by Scotland, who defeated Wales in the final by seven shots.

The Gloucester chemists' annual golf meeting was held at Brockworth Park, Gloucester, on June 7. The prize-winners were:—*Medal Round, Open*, (1) Mr. Browning, (2) Mr. Lampard; *Local*, (1) Mr. Bridges, (2) Mr. Maxwell Hill; *Travellers'*, (1) Mr. Kenwyn, (2) Mr. England. *Bogey Round, Open*, (1) Mr. Duckworth, (2) Mr. Foreman.

The annual competition between Liverpool and Manchester pharmacist golfers for the "Gibbs trophy" and replicas took place at Hillside Golf Club, near Southport, on June 10. Over twenty members of both clubs turned up, and the weather was of the best. Mr. J. Halliwell (D. & W. Gibbs, Ltd.) presented the trophy and the replicas, congratulating Manchester on having once more succeeded in winning the trophy.



[Photo]

PRESENTATION OF THE GIBBS TROPHY  
(MR. J. H. FRANKLIN ON THE RIGHT)

[Cleworth

Mr. F. D. Gee (captain) formally received the trophy and Mr. Franklin expressed his thanks to Messrs. Gibbs. The scores of the best eight were:—

Manchester				Liverpool			
Aves	..	..	70	Orr	..	..	73
Gee	..	..	75	Sefton	..	..	79
Phillipson	..	..	76	Saul	..	..	81
Demaine	..	..	80	Ashworth	..	..	81
Franklin	..	..	82	Alder	..	..	82
Hope	..	..	82	Glover	..	..	83
Collins	..	..	83	Ward	..	..	83
Bostock	..	..	83	Williams	..	..	84
631				646			

A team drawn from the Warrington staff of Thomas Ward & Sons, Ltd. (Warrington and Sheffield), led by Mr. P. D. Ward (director), entered for the "J. E. White" cricket cup competition at Warrington. The team was beaten after a keen game.

The fifth open summer meeting of the West Glamorgan Pharmacists' Golf Club was held at Clyne Golf Club, Swansea, on June 11. Results:—The "Rolando" silver challenge cup (presented by I. Rowland James, Ltd.), (1) G. M. Thomas, Pontardawe (101-19=82), first nine holes (47-9½-37½); (2) C. R. Dickens, Swansea (98-16=82), first nine holes (46-8=38). The latter received a box of a dozen golf balls presented by Mr. I. Rowland James (director). Other scores:—

L. Vanstone	..	(86-12)=74	Dr. Dunlop	..	(90-12)=78
A. R. B. Dunstan	(85-10)=75		D. C. Richards	(93-10)=83	
T. Stone	..	(92-16)=76½	T. J. Morgan	..	(93-9)=84

## Liverpool

Mr. P. E. D. Hirst, son of Mr. J. L. Hirst, a past-president of the Liverpool Chemists' Association, has won the Rome scholarship in architecture. Mr. Hirst, who is twenty-five years of age, graduated B.Arch. with first-class honours at Liverpool University last year, and had previously been the winner of several prizes in the same subject.

The fifty-fifth annual meeting of the Society of Chemical Industry will take place in Liverpool from July 6 to 10. A notable feature of this year's conference will be the attendance of a large party of members of the American Institute of Chemical Engineers, who are visiting this country as guests of the Institution of Chemical Engineers. Participation is restricted to members; tickets should be obtained as early as possible from the Secretary, c/o J. W. Towers & Co., Ltd., Widnes.

Between eighty and ninety students of the Liverpool School of Pharmacy were shown the Laboratories of Evans Sons Lescher & Webb, Ltd., Fleet Street, on June 10 and 11. They were divided into three parties each day, and were conducted through the works by Mr. C. E. J. Sendall, M.P.S. (director and chief of laboratory), Mr. J. H. Manson, M.P.S. (works manager) and Mr. G. B. Lee, M.P.S. At the close of an instructive visit, the students were entertained to a high tea at the Bear's Paw Restaurant. Mr. J. V. L. Fergusson (director), who presided, was asked to convey to Messrs. Evans the thanks of the gathering.

## Nottingham

Mr. J. A. Quigley (United Drug Co., Ltd.) and Mr. G. W. Smith (Boots Pure Drug Co., Ltd.) have been appointed to the traffic section committee of the Nottingham Chamber of Commerce.

With a view to stimulating recruiting for the Territorial Army, the directors of Boots Pure Drug Co., Ltd., have decided to grant leave on full pay for the fortnight's annual camp in addition to the ordinary holidays on full pay.

## Sheffield

Mr. Victor Wood has recovered from his illness and is now back at business.

The death occurred on June 12 of Dr. J. R. Forsyth, who, as assistant to Dr. Waterhouse, was well known to many local chemists.

## Miscellaneous

ON June 29 the Lord Mayor of Leeds is opening the new premises of Jack L. Barnett, Ltd., at 12 Meadow Lane, Leeds.

**BUSINESS MISSION.**—The Advertising Association has organised a business mission of 350 men and women to investigate the problem of marketing and advertising British goods in Denmark, Finland, Sweden and Norway. The party will leave for the Baltic on July 4. Sir Ernest Benn (president of the Association) will head the delegation.

**IN THE COURTS.**—At Lancaster, recently, Thomas Akister was fined 20s. for doing wilful damage to the extent of £9 16s. to a plate-glass window belonging to Boots, Ltd., and was ordered to pay 20s. towards the repairs.—At Flintshire Quarter Sessions, recently, Hampson & James, chemists, Rhyl, unsuccessfully appealed against a fine of 5s. for having sold razor blades on a Sunday.

**FRIENDLY SOCIETIES' CONFERENCE.**—The annual conference of the National Union of Holloway Friendly Societies will be held at Folkestone on June 20. The report discloses a membership of 455,165, with income £983,825, sickness benefit £275,410, and members' accumulations £9,178,368. Mr. H. W. Harrie (National Drug Industries, Ltd.), will, as usual, be the delegate for the Commercial Travellers' Sick Benefit Society.

**"MEDICINE VENDORS" BARRED.**—The markets and tolls committee of the Utttoxeter Urban Council recommended at a recent meeting of the Council that "medicine vendors" and "quack doctors" be refused stalls in future in Utttoxeter open market. The surveyor said it was the common practice at Newcastle (Staffs) to prohibit that type of salesman. A member protested that Utttoxeter was a chartered market, and if salesmen could find room no one could stop them selling. The resolution to prohibit such salesmen was carried.



## Scottish Notes

### Brevities

A memorial service for the late Mr. Robert Thomson, chemist and Druggist, Denny, was held in Denny Old Parish Church on June 7.

A correspondent writes:—"The average Scottish chemist is adopting a 'wait and see' policy with regard to the intricacies of the new poisons regulations, and trusting to the guidance of the inspector, especially with regard to storage."

A "vest pocket guide" to the Kyle of Lochalsh and the Isle of Skye has been issued as an advertisement by the Kyle Pharmacy, Kyle of Lochalsh. The guide contains 100 pages, and includes particulars of travel facilities and hotel accommodation.

The view is expressed that holiday locums are this year likely to be scarcer than usual, owing to the fact that many of the older generation of retired pharmacists who formerly did a little selected locum work have declined to pay the membership fee and are consequently precluded from retail work.

"Scotia" (17/6) writes:—"Panel practitioners continue to receive intensive instruction in the best method of reducing chemists' dispensing fees. We are told that the cost of medicines continues to rise. Is it any wonder? The time is overdue for a drastic overhauling of the conditions of panel chemists' employment in the light of present-day prescribing."

### Edinburgh

The Edinburgh Pharmacy Golf Club decided their summer competition over the Craigmillar Park course. Result: (1) J. S. Wilson; (2) W. S. Spence; (3) (tie) W. A. M. Hourston and W. H. Chambers.

The third botanical excursion of the summer session of the Edinburgh Chemists', Assistants' and Apprentices' Association took place on June 5, when upwards of twenty members under the guidance of Miss K. MacLucas and Mr. D. J. A. Paton assembled at the Braid Hills Hotel and proceeded by way of Blackford Hill. Over forty specimens were collected and their distinguishing features pointed out.

A meeting of the governors of the Heriot-Watt College was held in the City Chambers, Edinburgh, on June 12, at which intimation was made that the agreed sum of £1,000 had been received from the Royal Public Dispensary for pharmacy teaching. Two prizes, known as the Briggs prizes of £4 10s. each, will be awarded each year from the balance of the Professor Briggs memorial fund, which has been handed over to the trustees of the Heriot-Watt College. The delay in the plans for the furnishings of the physics and chemistry laboratories and the fume extraction plant was referred to. It is hoped that part of the extension will be ready for occupation by September.

### Glasgow and West of Scotland

The members of Glasgow Pharmacy Club met at Wellcroft Bowling Green, Glasgow, on June 9, to play off the rink competition for the Cartwright trophy. Eighteen players were forward and the winning rink of three was skipped by Mr. W. Moffat, whose other players were Messrs. W. Peebles and D. M. Dick. Prizes for the winners were also provided by Mr. John Logan. The trophy will be handed over at the annual dinner of the Club. The inter-city game with Edinburgh was played on June 10 on Mount Florida Green, Glasgow, the Cairncross trophy being at stake. Glasgow was up on both rinks, securing possession of the trophy by seventeen shots. The winning rink comprised Messrs. A. W. Calder, James Wilson, Duncan Edgar and John W. Logan, skip. Prizes for the highest up rink on each side were presented by Lorimer & Moyes, Ltd., Glasgow and Edinburgh, and James Taylor (Trongate), Ltd., Glasgow. The company adjourned after the game for tea.

Various golf competitions have been engaging the attention of members of the Glasgow Pharmacy Club. On April 21

the Grocers' Federation was beaten at Hilton Park Course in the annual match by 11½ games to 8½. On May 5 the mixed foursomes run in conjunction with the ladies' golf section were played off at Lenzie, when a tie resulted between Miss McEwen and Mr. A. Aitken and Miss Hinshelwood and Mr. D. Duncan. On a play-off the former couple were victorious and will later become the recipients of the Waide cup. The annual inter-city match with Edinburgh was played at Gables on June 3, Glasgow winning by 10 games to 6, two matches ending all square. The winners of the second round of the Virol Cup, played on June 9, were Messrs. J. W. Hamilton, net score 75; G. W. Adam, net score 75; W. Wood Wilson, net score 76; and James Low, net score 76. The opportunity was taken on the same day to play eliminating rounds for the T. & H. Smith cup, the first sixteen qualifying. For the Ucal cup for veterans the following have qualified: Messrs. W. Sievwright, T. MacMaster, A. Chisholm, W. Wood Wilson, R. Dickson, R. Christie, J. W. Downie, and J. Cruikshank.

## Irish Notes

### Ulster Chemists' Association

The monthly meeting of the Executive Committee was held at 73 University Street, Belfast, on June 2, the president (Mr. J. McGregor) in the chair. An apology was received from Mr. P. R. W. Shinner, who was unable to be present. Messrs. W. H. Boyd, J. Bunting, J. D. Shields and W. J. Heatherington attended as a deputation on behalf of the shop assistants and apprentices to make some suggestions as to hours and conditions of apprenticeship. Mr. Boyd acted as spokesman, and ably explained the points which the deputation desired to put. He said it was generally recognised that working hours were too long, and that regularisation as embodied in the proposed Shop Hours Amendment Act had the approval of both employer and employee. The measure indicated a fifty-two-hour week; but there was the possibility of a proposition being put forward for a forty-eight-hour week, if this was so, the difference was very small, and he asked the Committee to adopt a sympathetic attitude towards the proposition. With regard to apprentices, Mr. Boyd also made some suggestions as to improving the present conditions relating to hours of study and the limitation of apprentices in ratio to the number of assistants employed. The other members of the deputation endorsed the remarks of Mr. Boyd. The president, replying on behalf of the Committee, expressed his appreciation of the manner in which Mr. Boyd had put forward the views of the deputation, and promised that when the time came to take action due consideration would be given by the Committee and Association to the various points. Mr. Boyd thanked the president and Committee for their courteous reception. It was decided that a new edition of the price list should be prepared for issue at the beginning of the coming year. It was also agreed that the next meeting of the Committee would be held in September.

### Irish Drug Association

The fortnightly meeting of the Committee of the Irish Drug Association was held on June 15, Mr. T. C. Scott (president) in the chair. In connexion with the Committee's recent effort to organise the various photographic finishers in the Free State replies were received promising support, and it was felt that this photographic section will be a valuable part of the Association when it is finally organised. A member of the I.D.A. complained that against his written authority a certain guild had inserted his name on its current guild list. A discussion took place as to what action should be taken to prevent a recurrence of such practice. It was recommended that members should advise the secretary if any similar cases occur. It was decided to circularise all members again reminding each individual chemist and druggist of the obligations due to manufacturers and wholesalers whose names are on the Approved List, and to request members of the I.D.A. to co-operate by all means in their power (window and counter displays, etc.) with these firms. The recent tariff on razor blades has caused an increase in the prices of certain blades, but the Committee decided not to increase retail prices of blades in the Association's Price List until advised of increased wholesale prices by the manufacturers. Members will be advised when manufacturers advance prices.



### Ulster Chemists' Golfing Association

The ninth annual competition for the challenge cup presented by The British Drug Houses, Ltd., between chemists of the Irish Free State and Northern Ireland, took place at Shandon Park Golf Links on June 11, resulting in a win for the Free State team by eleven matches to three with two matches halved.

<i>Irish Free State</i>		<i>Northern Ireland</i>	
D. J. O'Reilly	6 and 4	F. D. McMullan	
R. White	$\frac{1}{2}$	A. T. Hardy	$\frac{1}{2}$
A. Maker	—	V. McMullan	1 up
B. R. Smith	5 and 3	J. M. Poots	
R. Bates	3 and 2	H. Rankin	
A. F. Roche	7 and 5	W. J. McCutcheon	
E. MacManus	6 and 4	R. A. Lynn	
E. Massey	6 and 5	R. Linehan	
J. J. Roche	3 and 1	G. H. Simms	
T. Burke	$\frac{1}{2}$	S. H. Forrest	$\frac{1}{2}$
V. O'Hara	6 and 5	J. Macauley	
C. Fielding	5 and 4	J. A. McRoberts	
J. H. Miles	—	T. Currie	2 and 1
F. Roche	5 and 4	C. Hall	
P. D. Larkin	—	W. J. Rankin	3 and 2
R. Such	4 and 2	D. Moffett	

On arrival of the Free State team, lunch was served in the new club house of Shandon Park Club. Mr. John McGregor (president of the Ulster Chemists' Association) welcomed the Free State visitors. After lunch play was begun; the result was another win for the Free State. Tea was served at 4.30. Mr. McGregor again presiding. After presenting the cup to the captain of the Free State team (Mr. R. Bates) he returned thanks to the Northern Ireland team for their hospitality. Votes of thanks to Shandon Park Golf Club and The British Drug Houses, Ltd., were passed.

### Brevities

Mr. S. S. Badger, J.P., Ph.C., has been co-opted a member of the Magherafelt Rural District Council.

At Portlaoighise Circuit Court, recently, Judge Gleeson heard an action against Francis Whelan, Ph.C., Rathdowney, at the suit of Michael McEvoy, to recover the sum of £50 in respect of a fee of £70 paid for his son as apprentice, or alternatively for breach of contract. The case for the plaintiff was that the boy did not get proper training and left after five weeks. Mr. Whelan, in evidence, said the boy was trained in the usual way and made no complaint, but left his place. The judge found that the apprentice had broken his contract without reasonable cause. He hoped that the boy would go back to his post; if not, he must give judgment for the defendant, with costs.



GROUP AT THE ANNUAL STAFF OUTING OF A. DE ST. DALMAS (IRELAND), LTD., AT KILMACURRA PARK HOTEL, CO. WICKLOW. In the centre is Mr. A. W. HUGHES, managing director.

## Topical Reflections

By Xrayser

### The Occupational Details

of members of the Pharmaceutical Society, revealed by a report recently made (*C. & D.*, June 13, p. 677), are illuminating and give rise to many queries, expressed and unexpressed. I agree that the Society is to be congratulated upon getting information from practically 80 per cent. of its members. If a similar result were obtained at Council elections, pharmacy would probably be in a better position than it is; at any rate it would represent more faithfully the wishes of the electorate. The number of managers and qualified assistants is greater by close on 1,000 than owners of shops—presumably those employed by the "multiples"—are included in the figure. I am amazed at the comparatively small number of pharmacists engaged in the wholesale or manufacturing trades, 756 in all, of which number practically half hold executive positions or are on the road. There are evidently openings for the qualified man in this latter capacity, and if a few hundreds could be absorbed by firms connected with pharmacy which are at present employing unqualified men, the effect upon pharmacy as a whole would be stimulating. The number of unemployed compares favourably with the proportion in any other calling. I am surprised that not more than 536 are retired—evidence of the healthy nature of the calling and perhaps of the fact that the average owner of a pharmacy cannot usually afford to retire but has to die in harness.

### By the Time

these notes are in the hands of your readers the great annual trek of members of the British Pharmaceutical Conference will have started. The Conference is a happy mixture of the professional and the social, of the business side and the ethical; it is an occasion for the renewing of old friendships and the making of new. This year the venue is, as usual, happily chosen. The scientific papers, although possibly high-brow to many and often divorced from the realities of life behind the counter, are yet necessary to indicate those pharmaceutical ideals without which pharmacy would lack incentive and aim. The branch representatives' meetings, where the

more practical and business sides of the calling are featured, give opportunities for "blowing off steam." The Conference also gives opportunities in the nature of a busman's holiday for those pharmacists who like to study the windows of their brethren and perchance discuss points in the displays. I hope the efforts made by the Local Committee for the comfort and enjoyment of visitors will be backed up by fine weather; in this respect Bournemouth usually gives little ground for complaint.

### I would Steer a Middle Course

between the views postulated by Mr. R. Cecil Owen and those of the writer of the second letter on the subject of physiology and dispensing (p. 684). That dispensing to-day is not the art it was can be proved by an examination of prescription-books which extend over a period of, say, fifty years and a comparison of the prescriptions copied into them. I am afraid it is true that we are in the "machine" age, both of prescribing and dispensing, and that the skilful mixing of ingredients once carried out by the retailer is now done by the manufacturer; the result can be seen in the price lists of the drug houses in which the medical profession is catered for. Those who do not dispense often order proprietaries, for which face prices only can usually be obtained by the pharmacist. I cannot agree, however, that the stock mixture habit is altogether modern. It was my lot (and, I may add, privilege) to be an assistant in an historic pharmacy close on forty years ago, and we dispensed for two firms of medical men. In the case of one, prescribing was along the old lines; the patient appeared to be studied to such an extent that we often made up batches of pills differing from others by an eighth of a grain of calomel or podophyllin, and mixtures showed equally minute differences. The other firm was quite different in the methods employed. We kept about a dozen stock mixtures and half a dozen stock pills for them, and the changes were rung on these with slight additions of a few galenicals. The members of both firms were extraordinarily successful with their patients, although their methods of prescribing were so different. It may be that a period of simplification in prescribing and dispensing will yet set in.



## Legal Reports

**Action Settled.**—In the Chancery Division of the High Court, London, on June 16, Mr. Robert Burrell, appearing for the plaintiffs in the action *Macleans, Ltd.*, against *G. & F. H., Ltd.*, proprietors of *Hughes Stores*, mentioned a motion in which the plaintiffs were seeking an injunction against the defendants. The parties, he said, had come to terms. The motion would be treated as the trial of the action. The defendants would submit to a passing-off injunction as claimed in the writ. They would also undertake to deliver up or destroy all offending cartons and labels, and to destroy or recrush all tablets still in their possession with the word "*Macleans*" stamped upon them. They would also pay the costs. The judge made an order accordingly.

**"Water-Wave" Action.**—In the King's Bench Division of the High Court, London, on June 11, after a two days' hearing, a claim for damages brought by *Mrs. Muriel Leslie*, *St. Maur Road, S.W.6*, who alleged that she contracted dermatitis after treatment of a "water wave" by a hairdresser, was settled before Mr. Justice Singleton. The defendants were "*Ambrose*," hairdresser, *Fulham Road, S.W.6*, and *Burgoyne, Burbidges & Co., Ltd.*, manufacturing chemists, *East Ham, E.6*, the manufacturers of the lotion applied by the hairdresser. The respective defendants denied that the lotion had been negligently applied or prepared. After expert evidence had been given, it was announced that the plaintiff would be paid £275 damages, with solicitor and client costs. The judgment would be entered against the hairdresser, but *Messrs. Burgoyne* would have judgment (without costs). Mr. Justice Singleton assented to the settlement.

**Dispensed Medicine Dispute.**—At *Dunfermline*, on June 11, *Mrs. Jeanie Hunter McArthur* of *Lumsden, Glencaig*, failed in her claim for £250 damages against *Lochgelly Equitable Co-operative Society, Ltd. (C. & D., May 30, p. 618)*. Sheriff *Umphertson* assuaged the defenders and found the pursuer liable in expenses. The sheriff found she had failed to prove that any injury or illness from which she suffered was caused by negligence on the part of the defenders or anyone for whom they were responsible. He had come to the conclusion that the pursuer's condition could be explained by simple facts: she had for ten days been taking a mixture which contained more chloroform than was soluble in the amount of water in the bottle; she was either not shaking the bottle with enough vigour, or not adding sufficient water to dissolve the chloroform; she was gradually upsetting her digestion. The pursuer had not proved that anything was in the refilled bottle which was not in the prescription, or anything omitted.

## New Companies and Company News

**P.C. means Private Company and R.O. Registered Office**

**BELMONT PHARMACY, LTD. (P.C.).**—Capital £200. Objects: To carry on the business of chemists, druggists, etc. R.O.: 25 Clifton Road, Exeter.

**RAYMOND THELWALL, LTD. (P.C.).**—Capital £3,000. Objects: To carry on the business of manufacturing, pharmaceutical and dispensing chemists and druggists, etc. Solicitors: *Emsley & Son, Leeds*.

**E. W. EDWARDSON & CO., LTD. (P.C.).**—Capital £30,000. Objects: To acquire the business of a glue and soap manufacturer now carried on at *Brimsdown, Middlesex*, as "*Edwardson & Co.*"

**BAYNARDS, LTD. (P.C.).**—Capital £100. Objects: To carry on the business of manufacturing pharmaceutical chemists, drug merchants and opticians, etc. *A. E. Russell, 94 Church Road, Hove*, secretary.

**AUSOLINE, LTD. (P.C.).**—Capital £1,200. Objects: To acquire the business of manufacturers of and dealers in insecticides carried on by *The Ausoline Co.* at *Southampton*. R.O.: 26 French Street, Southampton.

**CHAS. DAVIES (CHEMISTS, BARRY), LTD. (P.C.).**—Capital £100. Objects: To carry on the business of chemists, retailers of drugs and chemicals, toilet goods, etc. *Chas. H. S. Davies, 8 Park Crescent, Barry, Glam.*, director.

**CHAS. FORTH & SON, LTD. (P.C.).**—Capital £10,000. Objects: To acquire and carry on the business of a chemical manufacturer carried on by *Eric Forth* as "*Chas. Forth & Son*" at *North Gate, New Basford, Nottingham*.

**KHEPRA, LTD. (P.C.).**—Capital £100. Objects: To acquire from *L. F. Glaser* the trade mark "*Khepra*" and all the rights accruing thereunder, and to carry on the business in perfumes and cosmetics, etc. R.O.: 4/6 Throgmorton Avenue, E.C.2.

**F. P. LINDEN & CO., LTD. (P.C.).**—Capital £500. Objects: To carry on the business of manufacturers of and dealers in disinfectants, acids, chemical and scientific equipment, etc. Solicitor: *John S. Carr, 7-10 King's Chambers, Angel Street, Sheffield*.

**METAL CAP AND STOPPER CO., LTD. (P.C.).**—Capital £200. Objects: To carry on the business of manufacturers of metal, composition, cork and other kinds of caps, stoppers, lids, cans and containers generally, etc. R.O.: 24A The Elms, Dingle, Liverpool, 8.

**AVONDALE PRESERVING AND VINEGAR CO., LTD. (P.C.).**—Capital £2,000. Objects: To acquire the business of vinegar brewers heretofore carried on by *Arthur Bedwell & Co., Ltd.*, trading as *The Great Northern Vinegar Co.*, at 2, 2A and 10 Gill Street, Limehouse, E.

**RUSH & CO., LTD. (P.C.).**—Capital £1,000. Objects: To acquire the business of a manufacturer of medical and veterinary preparations, now carried on by *Herbert W. Rush* at 75 Sussex Road, South Croydon, and previously at 6 Gordon Place, King's Cross, W.C.

**BEAUTY CULTURE (BOURNEMOUTH), LTD. (P.C.).**—Capital £3,000. Objects: To carry on business connected with the purchase and sale and application of essences, lotions, extracts, oils, soaps, cosmetics, etc. *Basil H. S. Davies, Avon Cottage, Friar Cliff, Christchurch, Hants*, director.

**ANJOLENE, LTD. (P.C.).**—Capital £200. Objects: To acquire the formula of an ointment known under the trade mark "*Anjolene*" and the benefit of all pending applications for trade marks therefor, etc., and to adopt an agreement with *Anne Crouch*. Solicitor: *Geo. B. Ellis, 70/72 Chancery Lane, W.C.2*.

**JAMES CREAN & SON (1936), LTD. (Public Company).**—Registered in Dublin. Capital £100,000. Objects: To carry on the business of dealers in and brokers, manufacturers, refiners and bleachers of oils, tallows, greases, lard and its compounds, etc. *Harold E. Crean, St. Annes, Cowper Drive, Rathmines, Dublin*, managing director.

**BAKER PROCESS, LTD. (P.C.).**—Capital £1,000. Objects: To adopt an agreement with *A. Hynes, L. A. Baker and P. S. Harper*, and to carry on the business of manufacturers of and dealers in cameras, photographic plates, films, papers, chemicals, etc. Solicitors: *Richards Butler & Co., Cunard House, 88 Leadenhall Street, E.C.*

**BRITISH ALKALOIDS, LTD.**—In the course of his speech at the seventh annual meeting of shareholders, the chairman (*Sir Ivor Phillips, K.C.B., D.S.O.*), said:—I acknowledge, with appreciation, the co-operation we have experienced from the pharmacists all over the country. It has revealed the genuine and humane driving force of the retail chemist. His first aim is to serve the public and benefit humanity. We welcome very heartily the co-operation of the pharmacist, recognising full well that this friendly attitude is due to his personal knowledge of our products.

**TURTLE OIL PROPERTIES, LTD.**—Mr. C. J. Comins, the liquidator, has issued the following notice: Notice is hereby given that the creditors of the above-named company are required, on or before July 11, 1936, to send in their names and addresses, with particulars of their debts or claims, and



the names and addresses of their solicitors (if any), to C. J. Comins, 50 Cannon Street, London, E.C.4, and if so required by notice in writing to prove their said debts or claims at such time and place as shall be specified in such notice, or in default thereof they will be excluded from the benefit of any distribution made before such debts are proved.

**SANITAS TRUST, LTD.**—Net profit for the year ended May 30 £57,981, against £57,996 for 1934-35. The ten per cent. preference share dividend takes £49,500, and it is again proposed to pay a dividend of 1d. a share, tax free, on the 1s. ordinary shares, requiring £4,083, while, in addition, £5,000 is to be transferred to general reserve, the balance forward then showing a slight reduction at £13,496, against £14,099. The investments, which comprise 100,000 ordinary £1 shares of the "Sanitas" Co., and 6,000 preference £1 shares and 82,499 ordinary £1 shares of W. Woodward, Ltd., stand in the balance sheet at £449,997. The loan to subsidiary company appears at £112,000. Meeting, June 24.

**W. J. BUSH & CO., LTD.**—The accounts for 1935 show a net profit of £98,363 (against £87,858 for the previous twelve months). Income tax and exchange absorb £12,104 (against £11,411). The dividend on the ordinary shares is to be maintained at 13 per cent. (including the interim payment of 5 per cent.) and £20,000 (against £10,000) is to be written off goodwill. A sum of £10,000 (against nil) is to be set aside to create a reserve against possible plant obsolescence, and a similar sum (also against nil) is to be added to reserve against freehold works, leaving £102,133 to be carried forward (against £94,625). Last year £25,000 was placed to general reserve. Excluding interests in the subsidiary companies floating assets amount to £586,905, against current liabilities of £199,486. Meeting, June 22.

**VIROL, LTD.**—The thirty-sixth annual general meeting was held in London on June 11. The chairman (Lord Luke, K.B.E.), in the course of his speech, said: Our company has sustained a sad loss by the death of one of our original directors, Mr. Albert Searl, who had served the company faithfully and well for over thirty-five years, and I wish to tender to his family on behalf of the shareholders and ourselves our sincere sympathy in their sad bereavement. The gross profit on trading for the year amounted to £130,936 4s. 6d., and after adding amounts received from dividends, etc., and the amount brought in from last year's accounts, and deducting advertising, commission, salaries, depreciation, and all other charges, the profit and loss account shows an available balance of £45,201 13s. 11d. The directors now recommend the payment of a dividend of 10 per cent. on the ordinary shares and the carrying forward of the balance. The accounts of our associated company, Ambrosia, Ltd., show that the company has had another successful year and has substantially increased the demand for its various food specialities. I wish to express the directors' appreciation of the excellent work done by our efficient staff both at home and abroad. The retiring director, Mr. W. E. Lawson Johnston, was re-elected, and the proceedings closed with a cordial vote of thanks to the chairman.

**BOOTS PURE DRUG CO., LTD.**—The forty-eighth annual ordinary general meeting was held at Nottingham on June 11. In the course of his speech the Rt. Hon. Lord Trent (chairman of directors), who presided, said: I assume we may take the accounts as read. (*C. & D.*, June 6, p. 644.) During the year our subsidiary companies have made steady progress, and besides enlarging and modernising a large number of shops have opened 45 new branches and closed four, bringing our total at March 31 up to 1,120. The number of our sales transactions increased by over 6,500,000. During the past year we have taken the first step in a pioneering enterprise which may lead to important developments in the future. The first Boots branch of New Zealand was opened in Wellington in January of this year. Needless to say, our plans are not confined to the one branch already open. Progress with the centralisation and extension of our various Nottingham manufacturing units at Beeston continues according to plan, and we hope to move into the first section during the summer. In the fine chemical department we have had to contemplate a considerable extension both of factory accommodation and plant. We have not only to meet a great and rapidly increasing demand for special medical products, we have also to provide for the manufacture of an extending range of fine chemicals, for we have continually

in mind the importance of making this country independent of foreign supplies. The work of this department has just been extended by the purchase of the business in horticultural specialities previously owned by the Electro-Chemical Processes, Limited. We are developing a business in horticultural washes, including insecticides and fungicides and the type of merchandise which might be classified under the heading "Plant Medicines." In addition to the development at Beeston there is also nearing completion an important extension of our London warehouse in Stamford Street. The new block has been designed on the most modern lines. At the end of March our staff numbered 19,665, of whom about 7,000 were in the manufacturing and wholesale departments and about 12,500 in the retail. The figures show an advance of nearly 1,000 on the previous year. I spoke at some length last year on the success of the five-day week plan and of the attempt we were making to introduce longer holidays for the retail staff. The five-day week is now established as a permanent institution in our Nottingham factories. There appears to-day to be an unfortunate tendency to increase retail hours. In some districts, such as holiday resorts, not only are shops permitted during the summer months to remain open for very long hours, but advantage is also taken of exemption from the half-holiday closing. I must not sit down without referring to the retirement from the board of Mr. W. C. Church. I know I am voicing your sentiments in wishing him many years of health and happiness to enjoy his well-earned retirement. To fill the vacancy the directors elected Mr. Anderson to the board. He has been head of the fine chemical production for some years, and under him that department has made great strides. The motion was seconded by Mr. J. E. Greenwood, and carried unanimously. The retiring directors, the Right Hon. Viscount Mersey, the Right Hon. Viscount Wolmer, Colonel F. P. Braithwaite, and Mr. L. Anderson, were re-elected. A hearty vote of thanks to the chairman, directors and staff was proposed by Mr. G. C. Bond.

## Bankruptcy Report

**Re Jeanie Farish Martin**, 53 Kettering Road, Northampton, drug stores proprietress. The public examination was held recently at the County Hall, Northampton. According to the statement of affairs filed there were unsecured liabilities of £212 17s. 3d., with net assets of £41 1s. 3d., or a deficiency of £171 16s. Debtor said that at the time of her husband's death she consulted a solicitor regarding the business, and he informed the creditors that debtor was unable to meet their accounts. The registrar said that the case was one of pure misfortune. The examination was adjourned for closing.

## Private Arrangements

**Bernard O. Easton**, trading as Easton & Co., 81 Nicholson Street, Glasgow, manufacturing perfumiers. At the meeting of the creditors the statement of affairs showed ranking liabilities of £1,222 2s. 10d., against net assets of £317 0s. 1d., or a deficiency of £905 2s. 9d. The statement showed a dividend of approximately 5s. 2d. in the £. It was reported that the debtor commenced business in December 1933 with a capital of £25. At the end of the first year he was joined by another, who introduced £100. A dissolution, however, took place some time ago. It was decided that the matter should be dealt with under a trust deed in favour of Mr. G. C. Paterson.

**David Morrick**, late 458 Dumbarton Road, Glasgow, chemist. At the meeting of the creditors, held recently at the offices of Messrs. Kelman, Moore & Co., C.A., Glasgow, the statement of affairs showed ranking liabilities of £696 7s. 10d. After allowing £32 13s. 5d. for preferential claims, the net assets were £220 4s., or a deficiency of £476 3s. 10d. It was stated that the debtor commenced trading in January 1932 in the Pollockshaws district, with a capital of about £100. The venture was successful, but in June 1935 he disposed of the concern and commenced trading at the above address. Recently efforts had been made to dispose of the business, but without success, and it was decided to vacate the premises, and the assets were disposed of. The matter is to be dealt with under the trust deed already executed to Mr. A. W. Kelman.



# Pharmaceutical Society of Ireland Council Meeting

THE monthly meeting of the Council was held on June 9, the president (Mr. J. F. Costello) in the chair. Other members of the Council present were Messrs. F. J. Fitzpatrick, D. W. P. Boyd, Dr. J. A. Mitchell, Messrs. M. J. Kieran, D. Warwick, P. J. Fielding, J. Duggan, T. J. Smith, P. Brooke Kelly, J. K. Whelehan, M. J. Parkes, J. T. Dwyer, C. Cremen, B. P. Hickey, P. C. Cahill and Sir Thomas Robinson. Apologies for inability to attend were received from Miss F. M. Flood and Mr. J. Gleeson.

## CORRESPONDENCE

The following letter was received from the secretary of the Local Appointments Commission: "I am directed by the Local Appointments Commissioners to thank you for your letter of May 13 and for the copy of your Council's resolution from their meeting of May 12 relative to the qualification of Licentiate of the Pharmaceutical Society of Ireland. The Commissioners direct me to inquire further as to the views of your Council with regard to the reckoning of experience of candidates mentioned in the last paragraph of my letter dated April 23, and on which the Commissioners are anxious to have the opinion of the Pharmaceutical Society. I am to explain that in assessing the value of candidates' experience for the posts referred to the Commissioners deem it important to have your Society's views as to whether experience values should be determined from the date of the L.P.S.I. qualification only, or whether the value of experience acquired subsequent to completion of apprenticeship or to qualification by Assistantship examination should also be included in assessments."

MR. FITZPATRICK: I am of opinion that experience should count from after the L.P.S.I. qualification.

THE PRESIDENT: In medicine experience is reckoned from the time of qualification.

MR. KIERAN: You don't propose to make any difference between city and country experience?

MR. FITZPATRICK: No. That would not be fair.

It was unanimously agreed that experience should be reckoned as from the date of the L.P.S.I. qualification, and the registrar was directed to reply to the Appointments Commissioners accordingly.

Mr. John J. Gaynor, law adviser, wrote as follows in connection with the recent prosecution against Dr. W. J. O'Sullivan, Limerick: "I duly attended on this case at Limerick District Court, and as arranged I pointed out the fact which you were anxious should be mentioned, namely, that assistants to licentiate apothecaries have no legal standing whatever."

The secretary, Department of Justice, wrote notifying that the amendment of the Society's Regulation with regard to the payment of members' annual subscriptions, fixing the final date for payment each year as December 1 instead of December 31, had been approved by the Minister.

Mr. John Smith, M.P.S.I., Rathgar, wrote tendering his resignation as representative of the Society on a subcommittee of the Pharmacy Committee of the British Pharmacopoeia.

Mr. WARWICK said he felt that a member of the Council should represent them on the Pharmacopoeia Commission. He had much pleasure in proposing that Mr. Fitzpatrick be appointed to act on behalf of the Society on the subcommittee. Mr. Brooke Kelly seconded the motion, which was passed unanimously.

## REGISTRATION ITEMS

The following changes of address were notified:—Mr. R. H. Kerr, L.P.S.I., from 39 Durnsford Avenue, Wimbledon Park, S.W.19, to 73 Lynwood Road, Ealing, W.5; Mr. R. Laffan, L.P.S.I., from Dillon's Cross, Cork, to 17 Winthrop Street, Cork; Mr. H. W. Sheridan, L.P.S.I., from Thomas Street to c/o Murray's Medical Hall, Ltd., 6 Wine Street, Sligo; Mr. J. Smyth, L.P.S.I., from c/o J. S. Evans & Co., 5 Stephen's Green to The Hammam Pharmacy, 13 Upper O'Connell Street, Dublin.

## REPORTS RECEIVED

The reports of the Law, House and Benevolent Fund Committees were submitted and approved. The reports of the

housing and D.D.A. Regulations subcommittees were also adopted.

The examiners for the recent Assistants' examination reported that of the forty-eight candidates who entered four absented themselves and fifteen passed.

## ELECTIONS AND NOMINATIONS

Messrs. P. J. Ronan and J. A. Pattison were elected members of the Society. The following were nominated for membership: Messrs. D. W. Bleakley, Rathgar; R. L. Hanna, Dean's Grange, Blackrock; J. A. Hurson, Dublin; C. J. Staunton, Ranelagh.

# Indian Chemical Trade

THE total imports of drugs and medicines advanced from Rs. 192 lakhs to Rs. 211 lakhs. No details are available as to the countries of origin, but the comparative total trade in four principal items is shown as follows:—

	1934-35. Rs. (lakhs).	1935-36. Rs. (lakhs).
Camphor ... ..	21.6	22.4
Proprietary and patent medicines ...	39.2	64.2
Quinine salts ... ..	25.9	26.2
Saccharin ... ..	2.4	3.8

The resilience of the chemical industry is shown in a further noteworthy advance in the total imports of industrial chemicals and acids from Rs. 292½ lakhs to Rs. 312 lakhs. Details of countries of origin are not yet available for all items, but it is known that, as regards the important imports of sodium carbonate and caustic soda, United Kingdom suppliers are effectively meeting competition from Japan, although prices are closely cut. The following table gives the total imports under the several items:—

	1934-35. Rs. (lakhs).	1935-36. Rs. (lakhs).
Acids ... ..	10.1	12
Bleaching powder ... ..	11.3	11.8
Carbide of calcium ... ..	6.7	7.1
Copper sulphate ... ..	3.2	4.4
Disinfectants ... ..	6.4	6.1
Glycerin ... ..	3.9	4.3
Potassium chlorate ... ..	7.8	9.8
Sodium bicarbonate ... ..	7.6	7.8

The establishment of factories in India has resulted in the virtual extinction of the hitherto valuable trade in household and laundry soap. Total imports of all kinds of soap fell from Rs. 63 lakhs to Rs. 34 lakhs. The share of the United Kingdom fell from Rs. 53 lakhs to Rs. 27½ lakhs and that of unenumerated countries from Rs. 10 lakhs to Rs. 7 lakhs. The imports of soap were classified as follows:—

Household and laundry soap	12,464 cwt. = Rs. 2.9 lakhs.
Toilet soap ... ..	41,438 cwt. = Rs. 29.7 lakhs.
Other sorts ... ..	5,615 cwt. = Rs. 1.7 lakhs.

Total ... 59,517 cwt. = Rs. 34.3 lakhs.

A MEMORANDUM entitled "Sale of Milk under Special Designations" has been issued (price 3d.) by H.M. Stationery Office. The existing four grades of milk are to be replaced by three grades known as Tuberculin Tested, Accredited, and Pasteurised.

U.S. NATIONAL FORMULARY.—The thoroughness with which the United States National Formulary (N.F. VI) is being revised is evidenced by the circulation of three lists giving, respectively, the titles of papers reporting the principal research projects carried out between 1931 and 1935, for the improvement of the National Formulary; the research projects now in process and for which appropriations have been made; the research projects which it is hoped will be undertaken by persons or institutions that are interested in and equipped to carry on the proposed studies. The proposed investigations are scheduled under numerous headings. Suggestions may be sent to the Secretary of the American Pharmaceutical Association, 2215 Constitution Avenue, Washington, D.C., U.S.A.

# Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

## ENGLAND AND WALES

**Blackburn.**—It was reported to Blackburn Insurance Committee that the total number of prescriptions dispensed during 1935 was 337,750, against 321,739 in 1934. The total cost of prescriptions during 1935 was £11,764 (£11,183 during 1934). Of this £5,550 was for drugs (against £5,290) and £6,214 for dispensing (against £5,893). The average total cost per prescription in Blackburn was shown at a subsequent meeting to be 8.45d., against Rochdale 8.43d., Preston 8.19d., Blackpool 8.12d., Oldham and Bury 8.02d., Burnley 7.85d., Bolton 7.74d., and Barrow 7.52d.

**Bolton.**—Statistics for 1935, recently published, show that the number of persons entitled to medical benefit was 84,230. Prescriptions dealt with during the year numbered 392,470, the highest for the past six years with the exception of 1930. The total cost was £12,588.

**Cornwall.**—The number of insured people in the county on April 1 was the highest recorded—103,815—1,407 higher than the previous quarter and 2,015 higher than a year previously.

**Derbyshire.**—At a recent meeting of the Insurance Committee at Derby a communication from the Pricing Bureau respecting eight scripts submitted by a firm on the panel list under the drug store qualification was considered, one of which was for a mixture which required to be dispensed, the remainder being for packed appliances and tablets. The question whether persons in this registration were entitled to make up mixtures was raised, and it was resolved that the point should be submitted to the Ministry of Health for a ruling. During last year the scrutiny of prescriptions involved the examination of 15,801 scripts, of which 99.73 per cent. were properly established. Two were traced which should not have been issued, one to a youth under sixteen years of age and the other to an uninsured person.

**Devon.**—Grievances of chemists in regard to excessive prescribing were again referred to at the June meeting of the Insurance Committee. The number of prescriptions received from chemists by the South-West Joint Pricing Committee for pricing during 1935 was 3,857,529 for the whole area, compared with 3,731,029 during the preceding year, and for the county of Devon 501,481, against 481,359. Non-chemist prescriptions for the area numbered 10,495. The amount certified for chemists' accounts was £135,899 for the whole area, compared with £134,473 and £18,541, against £17,110 for Devon. The amount for non-chemists' prescriptions for the whole area was £1,442, against £1,013. The average cost of medicines per insured person for the whole area was 33.577d., compared with 32.635d., and for Devon 38.722d., against 37.184d., the cost per prescription being 8.455d., against 8.395d. A member considered that chemists were placed in a very unfair position. Allowed 2s. 7d. per head of the insured population, they suffered the additional expense due to any extravagant prescribing. The time had arrived when the Government should be brought to realise that the chemists ought to be adequately paid for what they were doing. The chairman (Mr. Rowsell) made reference to the cost of insulin, which he said worked out at an average for each Devon patient for whom it had been prescribed at no less than £12 13s. What ordinary insured person, he asked, would have been able to afford that amount of insulin per annum? A doctor contended that no medical man wished to have medicine supplied to patients out of the pockets of the chemists, but that was what happened if prescribing became excessive.

**Dorset.**—235,867 prescriptions were dispensed in the Dorset Insurance Committee's area in 1935, against 224,471 in 1934. Other increases were: Cost of drugs and appliances, £4,041, against £3,908; dispensing fees, £3,990, against £3,818; chemists on panel, 104, against ninety-eight. Four samples out of twenty-three taken were referred for investigation.

**Herefordshire.**—During the last quarter of 1935, 25,199 prescriptions were dealt with for the Herefordshire area of the West Midland Pricing Bureau at an ingredient cost of £432, compared with 24,701, costing £393, during the corresponding

period of 1934. Dispensing fees amounted to £465. The average total cost per insured person was 8.8d. compared with 8.1d. for the whole of the West Midland area.

**Leamington.**—Proposals for future payment of panel chemists' accounts were considered by the Warwickshire Pharmaceutical Committee at a recent meeting at Leamington. In view of the definite nature of the Ministry's proposals it was decided not to call a general meeting of panel chemists. The Pharmaceutical Service Subcommittee reported as to the results of twenty-eight tests taken since their meeting, three only of which were referred to the subcommittee.

**Leicester.**—A recommendation of censure and a fine upon a firm of chemists resulted from a report of the Pharmaceutical Service Subcommittee. The report stated that the manager, a qualified chemist, did not personally prepare a mixture. He did not see the ingredients weighed but the weights were called out to him by a girl assistant. It was stated that at the time he was cleaning a "difficult window" on behalf of his assistant.

**Liverpool.**—Despite a reduction in the number of insured persons in the Liverpool area in 1935 from 302,990 to 300,184, the number of prescriptions dispensed was 1,746,715, compared with 1,665,235 in the previous year, and the total cost £55,391 against £52,850. The average cost per prescription remained at about 7.61d.

**Oldham.**—Between October 1 and December 31, 1935, 107,303 prescriptions were dispensed in the area, compared with 100,072 in the corresponding period of the previous year. The average cost per prescription was 8.02d. (3.36d. for ingredients and 4.39d. dispensing fees), against 8.1d. (3.7d. ingredients and 4.4d. dispensing fees). Insured persons were 1,613 fewer.

**Portsmouth.**—On the recommendation of the Minister of Health the local Insurance Committee has decided not to give financial support to the city's "Health Week" celebrations, although its co-operation has been promised. The latest report of the South-Eastern Pricing Committee shows that the total cost per insured person varies from 2s. 3½d. in Canterbury to 3s. 2½d. in Hastings, Portsmouth being slightly above the average of 2s. 10d.

**Preston.**—The suggestion that the high cost of drugs under the National Insurance Acts was attributable to mortgaged practices in local areas was made by a member at a recent meeting of the Insurance Committee. The Committee's annual report disclosed the following statistics for 1935:—Amount paid to chemists, £9,354; average cost of prescriptions, 8.22d. (2.3 per cent. higher than for whole area); average cost per insured person, 43.99d. (5 per cent. higher than for whole area).

**South-Eastern Division.**—The recently published report of the Joint Committee for Pricing Prescriptions (South-Eastern Division) shows the effect of the reduction in the price of insulin in 1935; the cost is £9,587 against £10,172. Other figures given are:—

Year	Average number on Panel	Prescriptions	Value £ s. d.
1916	.. 932,266	.. 2,510,345	.. 64,347 17 11
1926	.. 1,281,163	.. 4,864,441	.. 179,132 18 6
1934	.. 1,785,028	.. 7,018,684	.. 246,308 9 3
1935	.. 1,850,121	.. 7,408,261	.. 262,018 14 6

## SCOTLAND

**Ross and Cromarty.**—All test samples of medicine and appliances taken in Ross and Cromarty during 1935 were proved to comply with requirements. At a recent meeting of the Ross and Cromarty Insurance Committee it was decided that practitioners should discontinue to prescribe rectified spirit in ear drops, substituting industrial methylated spirit. The following statistics were recorded in the annual report of the Committee, recently issued:—

	1934	1935
Insured person, December 31	.. 18,249	18,322
Prescriptions issued	.. 14,717	15,483
Total cost	.. £970	£1,022

Restoration of the economy cut accounted for £199 of the increased total.



## Items in Parliament

### DRUG ADDICTS

The Home Secretary was asked whether his attention had been called to the report of the Opium Section of the League of Nations, stating that there were 30,000 confirmed drug addicts in this country; and whether he could make a statement on the matter?

Mr. Lloyd (Under-Secretary): My right hon. Friend's attention has been drawn to a statement in the Press that there are 30,000 drug addicts in this country. This statement is wholly unfounded. It purports to be based on a report of the Opium Section of the League of Nations Secretariat, but I am informed that this report contained no such statement. I may add that, according to the information available in the Home Office, the number of addicts known to the authorities does not exceed 700.

In answer to a supplementary question, Mr. Lloyd stated that drug traffic in this country was confined to London.

### NATIONAL HEALTH INSURANCE

The Minister of Health was asked whether he could state the number of insured persons entitled to ordinary medical benefit under any of the National Health Insurance Schemes at the last convenient date; the number of insured persons entitled to additional benefit, dental, optical, or convalescent at the same date; and the amount paid by Approved Societies for dental benefit and for optical benefit, respectively, for the twelve months ended on the last convenient date?

Sir K. Wood: It is estimated that at the end of 1935 there were in Great Britain 17,708,000 insured persons entitled to medical benefit. During 1935, the sum of £1,756,000 was expended in the provision of dental benefit by Approved Societies with a total membership of 11,112,000, £414,000 was expended on ophthalmic benefit by Approved Societies with a total membership of 10,645,000, and £110,000 was expended on convalescent home treatment benefit by Approved Societies with a total membership of 10,829,000.

### IMPORT DUTIES IN UNORGANISED INDUSTRIES

The President of the Board of Trade was asked whether (1) in order to encourage new industries, he was prepared to make direct application to the Import Duties Advisory Committee for an import duty on selected manufactures where no combined industry existed; and (2) he was prepared, when rise in imports indicated and employment was affected, to make such application without waiting for a combined appeal from the trade nearest affected, which might not be well enough organised.

Mr. Runciman: Under the Import Duties Act any recommendations . . . made by the Import Duties Advisory Committee fall to be considered by the Treasury in consultation with the Board of Trade and, in certain cases, with other Government departments. In these circumstances it would not be appropriate for me to make representations to the Committee with a view to their recommending additional duties. My hon. Friend is, however, mistaken in supposing that the Committee cannot, if necessary, initiate action without waiting for an application. Moreover, it is open to any manufacturer or trader to make representations to the Committee.

### SCIENTIFIC RESEARCH

The Lord President of the Council was asked whether it was proposed to increase the total sum granted to research covering a period of years.

Mr. Ramsay MacDonald: The total sum provided for industrial, agricultural, and medical research in the Estimates now before Parliament for the current financial year is £1,252,989, as compared with £1,138,708 voted for the year 1935—an increase of approximately 10 per cent. I am unable to forecast the amounts to be included in the Estimates for future years; but . . . the requirements in the various branches of research will be considered from time to time as heretofore by the Advisory Council for Scientific and Industrial Research, the Medical Research Council or the Agricultural Research Council, as the case may be, and financial provision made after consideration of their recommendations.

Further questioned whether firms would be encouraged to more active research by canvassing them specially with the offer of assistance by grants, Mr. MacDonald replied: The Government scheme for co-operative research by means of research associations is already widely known throughout the industrial community. . . . I do not think any additional canvassing of industry would serve any useful purpose, but the Department of Scientific and Industrial Research is ready at all times to discuss with responsible leaders of industry any schemes for co-operative research in which the Department might share, and takes every opportunity which arises of initiating such discussion.

Another member: What steps are taken by the National Physical Laboratory to convey to interested firms the results of their experiments in new fields?

Mr. MacDonald: The result of these experiments is communicated in accordance with circumstances. It is quite impossible to lay down a regular rule. . . . I should be very much surprised if my hon. and gallant Friend could bring to my notice the case of an industrial firm of any importance that is unaware of the results of the National Physical Laboratory's research relating to its own industry.

### MEDICAL RESEARCH

The Secretary of State for War was asked what experiments and/or investigations had been made on behalf of the War Office into the prevention and cure of the common cold and influenza within the last six years; and what success, if any, had attended them.

The Secretary of State for War (Mr. Duff Cooper): Investigations have been undertaken in vaccine-therapy and in prevention by extensive hygienic precautions, without, however, satisfactory evidence being obtained as to the efficacy of vaccines in relation to either influenza or the common cold. An inquiry now being conducted in collaboration with the Medical Research Council, however, gives hope of more promising results.

## New Books

Crofton, R. H.—*A Pageant of the Spice Islands*. 7½ × 4½. Pp. 131. 5s. John Bale, Sons & Daniellson, Ltd., 83-91 Great Titchfield Street, London, W.1. [A History of Cloves in the spheres of politics and economics from the first mentions in Chinese and Roman literature to the present-day position of the trade in Zanzibar and Madagascar.]

Linstead, H. N.—*Poisons Law*. 8 in. by 5½ in. Pp. 444. 5s. The Pharmaceutical Press, 23 Bloomsbury Square, London, W.C.1. [In this book the law relating to poisons is preceded by an historical sketch of previous legislation on the subject. The book is divided into seven chapters and two appendices: the first appendix contains the text of relevant statutes, rules and so forth, and the second a list of preparations containing poisons. The chapter entitled "The International Background to the Dangerous Drugs Acts" has been contributed by Sir Malcolm Delevingne. As this treatise appears to overlap to some extent with the Calendar of the Society, it will be interesting to notice whether the Calendar will be continued in its present make-up. From the specimens of labels given it may be inferred that uniformity of practice in drawing up labels for poisonous substances is not likely to be attained at present. We are not aware of any authority for the statement that the Isle of Man and the Channel Islands are "included in Great Britain"; but the exposition (in which the help of Mr. M. D. Perrins, Mr. J. Davidson Pratt, Major W. H. Coles and others is acknowledged) may as a whole be taken as of an official character, and will presumably serve as an examination text-book. We endorse a comment in "The British Medical Journal" review of the book in its issue of May 30: "The historical approach explains—surely nothing can justify—the very great complexity of the subject."]

MEDICINAL PLANTS OF FRANCE.—The excellent series of coloured illustrations of medicinal plants of France, published in separate leaflets, has been referred to from time to time in the *C. & D.* The second instalment of the third volume (eight leaflets) has just been issued (price 75 fr.), and is obtainable at "C.D.P.M.," 17 Rue Duguay-Trouin, Paris, 6°.

## Corrections in N.F. VI

THE thoroughness with which the United States National Formulary (N.F. VI) is being revised is evidenced by the circulation of three lists giving, respectively, the titles of papers reporting the principal research projects carried out between 1931 and 1935, for the improvement of the National Formulary; the research projects now in process and for which appropriations have been made; the research projects which it is hoped will be undertaken. The proposed investigations are scheduled under numerous headings. Suggestions may be sent to the Secretary of the American Pharmaceutical Association, 2215 Constitution Avenue, Washington, D.C., U.S.A. The following corrigenda have been issued:—

Page	Line	
7	36	Change One litre equals 1000.27 c.c. to One litre equals 1000.027 c.c.
33	22-26	Change to: Ampoules of Dextrose contain a sterile solution of 50 gm. of dextrose in a sufficient quantity of ampoule water to make 100 c.c., unless another concentration of the solution is stated on the label, and yield an amount of anhydrous dextrose, $C_6H_{12}O_6$ , corresponding to not less than 86 per cent. and not more than 96 per cent. of the labelled amount of dextrose.
35	16-18	Change to: solution is stated on the label, and yield an amount of anhydrous emetine hydrochloride, $C_{23}H_{40}O_4N_2 \cdot 2HCl$ , corresponding to not less than 84 per cent. and not more than 92 per cent. of the labelled amount of emetine hydrochloride.
35	39	Change 0.006794 gm. to 0.005533 gm.
35	40	Change $C_{23}H_{40}O_4N_2 \cdot 2HCl \cdot 7H_2O$ to $C_{23}H_{40}O_4N_2 \cdot 2HCl$ .
41	6	Change contained to contain.
45	27	Change 0.005846 gm. to 0.005845 gm.
50	39-41	Change to: Place 10 c.c. of water in a clean test-tube and add 2 drops of methyl red pH indicator: no orange colour develops, indicating a pH of not less than 5.8. Another 10 c.c. portion of water does not show a pink colour.
52	10-14	Change to: Macerate a weighed amount of the recently cut and partially dried dormant twigs of <i>Hamamelis virginiana</i> for about 24 hours in about twice their weight of water; then distil until not more than 850 c.c. of distillate is obtained for each 1000 gm. of the twigs taken; add 150 c.c. of alcohol to each 850 c.c. of distillate; mix thoroughly.
52	31	Change 13 to 15 to 14 to 15.
53	33-37	Change to: Place 10 c.c. of Redistilled Water in a clean test-tube and add 2 drops of methyl red pH indicator: no orange colour develops, indicating a pH of not less than 5.8. Another 10 c.c. portion of Redistilled Water does not show a blue colour on the addition of 5 drops of bromthymol blue pH indicator, indicating a pH of not more than 7.0.
66	47	Change 3.6724 gm. to 3.7473 gm.
68	26	Change 1 c.c. to 4 c.c.
77	21	Change didymium to neodymium, praseodymium.
89	45	Omit: "Lutein"; transfer or to between "Extract" and "Corpora Lutea."
112	21	Change 22 to 24 to 23 to 26.
117	3	Change 21 to 24 to 24 to 28.
122	13	Change 1 c.c. to 0.1 c.c.
138	4	Omit 1 gm. of the Extract represents 2 gm. of aloe.
159	8	Change 9.27 gm. to 0.27 gm.
162	3	Change 57 to 63 to 52 to 57.
164	5	Change 0.1 gm. to 0.1 c.c.
164	13	Change in each 100 c.c., 3.75 U.S.P. to in each 0.1 c.c., 3.0 U.S.P.
180	31	Change 12 to 18 to 17 to 21.
187	3	Change Gel. Ephed. to Gel. Ephed. Sulf.
205	34	Change to: Average dose: Metric, 1 gm.—Apothecaries, 15 grains.
210	25	Change 12 mm. to 10 mm.
244	25	Change 8 gm. to 6 gm.
250	25	Change Compositæ to Composita.

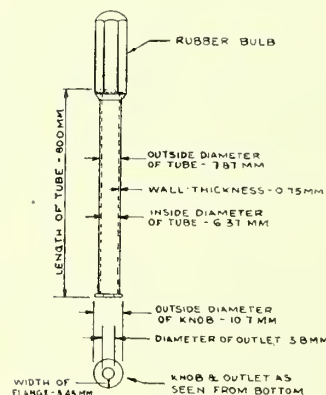
Page	Line	
317	38	Change the walls to the cell walls.
353	14-a	Add Distilled Water, a sufficient quantity.
372	39	Change 10 c.c. to 100 c.c.
393	36-a	Add: Dogs, 0.2 c.c. per kg. of body weight.
397	26	Change 57 to 63 to 63 to 69.
397	27	Change to: Average dose: Metric, 0.5 c.c.—Apothecaries, 8 minims.
424	3	Omit Analgesic Balm.
434	3	Change contain to each contains.
439	38	Change Potassium Hydroxide to Sodium Hydroxide.
475	20	Omit ( <i>Paris Green</i> ).
494	11	Change March 1 to June 1.

### INDEX

Page	Column	Line	
515	2	33	Change 473 to 474.
515	2	44	Change 476 to 475.
535	2	27	Change 313 to 131.
536	2	25	Change Compositæ to Composita.
537	2	2	Change Mercurous Chloride, Iodide to Mercurous Iodide.
540	1	24	Change 475 to 479.
541	1	12	Change 434 to 435.
542	2	2	Change Potassium Acetate, Hydroxide, to Potassium Hydroxide.
543	2	53	Omit Red, Phenol, Test Solution . . . 482.
544	1	40	Change Rocella to Roccella.
545	2	38	Change 208 to 308.
545	2	39	Change 340 to 240.

## An Accurate Dropper

THE surface tension of such tinctures as Tr. *Digitalis* is such that at room temperature the maximum drop is fractionally less than one minim. A dropper has been designed by R. A. Konnerth, R. E. Schoetzw and F. W. Nitardy (Journal of the American Pharmaceutical Association, xxiv, 10, 856) which delivers this maximum drop. It consists of a straight glass tube 8 cm. in length and having an internal diameter of 6.4 mm., one end of which is attached to a rubber bulb and the other thickened into a flange with narrower aperture. For tincture of *Digitalis*, U.S.P., the diameter of the flange is 10.7 mm. and of the orifice 3.8 mm. The maximum drop is obtained when the dropper is held vertical, the tube full and expulsion of the liquid slow and controlled. The accuracy of the tube is such that of thirty-five taken at



random thirty-three yielded drops measuring between 0.910 and 0.995 minims, and of these, twenty-two ranged between 0.930 and 0.969 minims. The lowest volume delivered was 0.910 minims per drop. Slight modification in the dimensions of the dropping flange furnishes a dropper suitable for other liquids.

LACONIC.—"A reader writes to me: Can any of your readers supply a more concise epitaph than 'Fuller's Earth' on the tomb of the Rev. Thomas Fuller, Chaplain to Charles II, in Cranford Church, A.D. 1661?"—"Peter Simple" in "The Morning Post."

MOUSE PIE.—"A statement that mouse pie had been given to children to cure a certain weakness was made during a prosecution by the N.S.P.C.C. at Hull yesterday [June 15]. 'Do you mean pie made with mice?' inquired the stipendiary magistrate, 'Yes,' replied Inspector Harfry, who stated that it was a thing he had heard of in other cases."—"The Times."



# Recent Studies in Chemotherapy

IN "The Lancet" of June 6 two important monographs appeared. The first, by Drs. Leonard Colebrook and Méave Kenny, is entitled "Treatment of Human Puerperal Infections, and of Experimental Infections in Mice, with Prontosil"; the second, by Drs. G. A. H. Buttle and Dora Stephenson and Mr. W. H. Gray, has the still longer title "Protection of Mice Against Streptococcal and Other Infections by *p*-Aminobenzenesulphonamide and Related Substances." The first paper derives from the Medical Research Council and Queen Charlotte's Hospital, with supplies of material contributed by Bayer Products, Ltd.; the second from the Wellcome Chemical Research Laboratories and the Wellcome Physiological Research Laboratories, with helpful suggestions from friendly scientists. Both are illustrated by tables and formulas.

## Findings in the First Monograph

The principal conclusions in the first monograph (omitting those relating to mice) are:—

Thirty-eight puerperal fever cases infected by hæmolytic streptococci have been treated by oral plus intravenous or intramuscular doses of prontosil. Subject to confirmation by further experience the impression has been gained that in many of the more severe cases the drug has exerted a definitely beneficial effect, manifested by unexpectedly prompt fall of temperature and remission of symptoms; and this impression is supported by a substantial reduction in the case-mortality of the whole series. Three patients in whom there was judged to be a generalising peritonitis on admission (one with a positive blood culture) have recovered without laparotomy under very large doses of the drug. The clinical results, together with the mouse-protection experiments, support the view that further clinical trial is amply justified, and that there is more hope of controlling these streptococcal infections by the early administration of this or some related chemotherapeutic agent than by any other means at present available.

While the drug has been well tolerated by most of the patients there have been transient toxic effects in some cases, and many have shown indications of a mildly irritant effect upon the tissues of the urinary tract. Three cases have developed sulphæmoglobinæmia.

There is at present no indication from animal experiments that the drug is likely to have a beneficial effect upon puerperal infections by organisms other than the hæmolytic streptococci; and in view of the toxic effects referred to above its administration should be confined to such cases.

Apart from the fact that growth of the streptococcus is somewhat retarded (although not suppressed) in the serum of patients under treatment by the drug very little is known at present as to the nature of its antimicrobial influence in the animal body.

## Findings in the Second Monograph

The second monograph concludes with the following summary:—

*p*-Aminobenzenesulphonamide will protect mice against streptococcal infection. It has the same therapeutic activity as prontosil, but is less toxic when given by the mouth, so that it is possible to obtain better protection by giving larger doses.

Protection can be obtained against streptococci belonging to different serological types.

Some protection of mice against meningococcal infection has been demonstrated, but it has not been possible to demonstrate protection against staphylococci or pneumococci.

Increase in the number of sulphonamide groups attached to the benzene nucleus to three is accompanied, not by increase, but by extinction of the streptococcicidal activity.

The anilide of sulphanilic acid is as active as the amide.

Sulphanilic acid itself has a smaller, but not negligible, protective action.

Azo-compounds derived from *p*-aminobenzenesulphonamide and phenolic cinchona alkaloids are inferior to prontosil in this respect.

## Medical Comment

In the course of an editorial article extending to more than a page, "The Lancet" remarks:—

"It was shown repeatedly years ago that streptococcal infection in mice could be prevented if within an hour or two of infection the inoculated area were infiltrated with acriflavine or other substances of similar composition. At first sight these new experiments may appear to be of the same nature and of no greater significance. . . . The difference is that the action of acriflavine is directly bactericidal and purely local, whereas the action of prontosil, whatever it may be, is almost certainly not due to direct bactericidal action, and is obtained by introducing the drug, not locally, but either via the alimentary tract or by subcutaneous injection remote from the site of infection, which in these experiments is in fact the peritoneal cavity. Not only does this drug work, so to speak, at a distance, but it . . . appears to have determined recovery in an animal already the subject of bacteræmia. This at any rate is something quite new; it is the first time that any drug has been shown to have a specific and regular effect on an acute bacterial infection when administered by the mouth."

"The Lancet" goes on to express the view that there is presumably a chemical side to the mechanism by which infection is overcome; and that the discovery made by the authors of the monographs, while obviously a therapeutic advance, is also an indication that in this sphere of medicine investigators are merely groping in the dark.

## Electrical Energy During Fermentation

By means of a "fermentation cell" M. C. Potter ("Zentralblatt für Bakteriologische Abteilung," II, Bd. 93) shows that approximately 4 coulombs of electricity are set free in the yeast fermentation of one gram-molecule of cane sugar. The fermentation cell is characterised by the peculiarity that an electric current runs through the system as a result of a chemical action in which the electrodes are not involved. The work of fermentation may be measured by electro-deposition of copper. A *modus operandi* is to place one electrode in the saccharine solution and another in the same solution in a porous pot suspended in the outer vessel containing the fermenting solution. Wires connected to each of the electrodes dip into a copper sulphate solution in a separate vessel (without contact with one another except through the solutions). The deposition of copper is proportionate to amount of sugar undergoing fermentation. Since neither sugar nor the alcohol produced therefrom ionises in aqueous solution, the phenomena dependent upon ionisation are without influence in the fermentation cell (i.e., this is independent of concentration effects, diffusion, permeability, boundary phase and membrane potentials, and diphasic liquid systems). No polarisation appears to take place in the fermentation cell.

THE HOFFMANN memorial lecture, 1936, by Professor G. T. Morgan, is issued (pp. 65, illustrated, 1s.) by Macmillan & Co., Ltd., St. Martin's Street, London, W.C.2.

A NEW ARSENICAL.—A recent issue of "The British Medical Journal" (3933) contains a six-page monograph giving the results of trials of sodium succinilo-methylamide-*p*-arsonate, a substance described by Morgan and Walton in 1931, and now used for the treatment of syphilis and trypanosomiasis.

WHEN SEEING IS NOT BELIEVING.—A correspondent (3/4) has favoured us with the loan of an insurance prescription ordering calamine, zinc oxide, glycerin and lime water; the directions, plainly written, are "5ij. ex aqua t.i.d.p.c." This may be one of the cases in which a prescriber uses only two sets of directions and occasionally hits on the wrong one.



## Trade Notes

**SUPPLEMENT TO EVANS' LIST.**—Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool, have recently issued a brochure to all retail pharmacists on their mailing list, showing the incidence of the Pharmacy and Poisons Regulations on those products quoted in their current A price list. Copies of the brochure are obtainable on application.

**BONCILLA FACE POWDER.**—A display showcard which carries a package of Peach Tan face powder is illustrated herewith. Further details may be obtained from J. C. Gambles & Co., Ltd., 211-213 Blackfriars Road, London, S.E.1.



units vitamin A and vitamin D per gram. The price is stated to be comparable with that of irradiated ergosterol and synthetic calciferol. Inquiries are invited.

**GLUCOSE BARLEY POWDER.**—Warrick Bros., Ltd., Nile Street, London, have introduced Warrick's Glucose Barley Powder, which it is stated makes a delicious sustaining and refreshing drink. It has the flavour of grape fruit and is issued in two sizes. Full details are given elsewhere.

**75 YEARS IN BUSINESS.**—Joseph Lingford & Son, Ltd., Bishop Auckland, County Durham, celebrated their seventy-fifth birthday on June 18. To mark the occasion a 54-page booklet has been published entitled "Lingford's Ideal Home Magazine." It is attractively printed and provides much useful information. Copies may be obtained, price sixpence, post free.

**ANNUAL OUTINGS.**—C. J. Hewlett & Son, Ltd., 35-42 Charlotte Street, London, E.C.2, are holding their annual outing to Margate on June 27, when offices and warehouses will be closed.—Stafford Allen & Sons, Ltd., Cowper Street, Finsbury, London, E.C.2, are closed on June 27 on the occasion of their annual outing. Only urgent orders can be attended to on that date.

**BYRLCREAM AT THE DERBY.**—The County Perfumery Co., Ltd., took advantage of displaying by aeroplane to the vast assembly on Epsom Downs the slogan: "Byrlcream always finishes ahead." Illustrated is a picture showing the aerial sign as the horses round Tattenham Corner. A Byrlcream



window display competition is announced elsewhere in this issue. Prizes to the value of £215 are offered. Full details of the competition will be posted to retailers on June 20. Chemists interested who do not receive a copy by June 22 are invited to make an application.

**AZIADÉ COMPACTS.**—Illustrated herewith is the large size of Aziadé compact perfumes, together with a showcard which is of interest to retailers. Dummy display cartons, such as are here shown may be obtained from Aziadé, Ltd., 172 Buckingham Palace Road, London, S.W.1, for shelf or window display.



W. E. TAYLOR & Co., Ltd., 27 Cadogan Street, Glasgow, C.2, have removed to larger premises at 632 Argyle Street, Glasgow, C.3.

## Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary and Year-Book," 1936, p. 322.

(From "The Trade Marks Journal," June 3, 1936.)

- "DAK"; for photographic chemicals, etc. (1). By Kodak, Ltd., Kingsway, London, W.C.2. 568,175. (Associated.)
- "SANTASITE"; for all goods, excluding paints, etc. (1). By Monsanto Chemicals, Ltd., Victoria Station House, Victoria Street, London, S.W.1. 566,679.
- "SOLVITAX" with ship design; for veterinary and medicinal preparations of cod-liver oil (1 and 2). By British Cod Liver Oil Producers (Hull), Ltd., St. Andrew's Dock, Hull. 567,753/754. (Associated.)
- "NOVOL"; for anaesthetics (3). By Novocol Chemical Manufacturing Co., Inc., 2921-2923 Atlantic Avenue, Brooklyn, U.S.A. 553,449.
- "PONELL"; for medicated preparations, excluding soap (3). By Ponell Laboratory, Napier House, Pittville, Cheltenham. 566,497.
- "EMANON"; for medicinal chemicals, excluding medicated apparatus (3). By Seajoy Co., Ltd., 114 Upper Richmond Road, S.W.15. 567,216.
- "NORGALITE"; for medicinal chemicals (3). By May & Baker, Ltd., 42/43 St. Paul's Churchyard, London, E.C.4. 568,418.
- "BAN-ILE" with gypsy caravan design and the words "Banishes Piles"; for internal herbal medicines for piles (3). By Romany Cures, Ltd., 1 Broad Street Place, London, E.C.1. 566,894.
- "JUKON" incorporated in design with jar; for medicated salves (3). By Ahlander & Ohrström, tredje Langgatan 43, Göteborg, Sweden. 567,330.
- "DRALSTONE CEMENT"; for medicated dental cement (3). By Dr. Abrahams' Laboratories "Drala," Ltd., 3 St. James's Square, London, S.W.1. 567,586. (Associated.)
- "BENERVA"; for medicinal chemicals (3). By The Hoffman-La Roche Chemical Works, Ltd., 51 Bowes Road, London, N.13. 568,232.
- "PICOCROME"; for medicinal chemicals (3). By W. R. Warner & Co., Ltd., 300 and 302 Gray's Inn Road, London, W.C.1. 568,473.
- "ST. CLEMENTS"; for cordials (42). By Kia-Ora, Ltd., 35-38 Rushworth Street, London, S.E.1. 568,432.
- "UCALOSE"; for dextrose, powdered glucose and liquid glucose (42). By Ucal, Ltd., Priory Works, Cheltenham. 568,113. (Associated.)
- "JUSSENTIS"; for aerated beverages (44). By The Birmingham Syphon Co., Ltd., 5 Meriden Street, Birmingham, 5. 568,327.
- "BLUE WALIZ"; for perfumery, etc. (48). By Maison Joubert, Inc., 71 Fifth Avenue, New York, U.S.A. 567,139.
- "MINZY DE RAYMOND"; for perfumery, etc. (48). By E. J. Fay, 254 West 31st Street, New York, U.S.A. 568,072.
- Three Cheques with the word "Oral-ees" (Oral-ees disclaimed); for perfumery, etc. (48). By A. M. Hogarth, 143 Golders Green Road, London, N.W.11. 568,433. (Associated.)



## Births

Notices for insertion in this column must be properly authenticated

SHELLEY.—At Gold Tops Nursing Home, Newport, Mon., on June 16, Vera Shelley, Ph.C., the wife of J. R. E. Shelley, Ph.C., of a son.

## Marriages

CROSSLAND—ROBINSON.—At St. Edward's Church, Barnsley, on June 1, John Crossland, chemist and druggist, Levenshulme, Manchester, to Mollie Robinson.

JOHNSTONE—THOMSON.—At the Royal Hotel, Edinburgh, on June 10, David Bell Johnstone, chemist and druggist, to Margaret M. Thomson.

LIVINGSTONE—PARK.—At Strathaven, Lanarkshire, on June 10, James P. Livingstone, Prestwick, to Jessie Wilson Park, chemist and druggist, Strathaven.

NAYLOR—RAW.—On May 30, Lawrence Naylor, Shipley, to Doris Mary Raw, daughter of Mr. H. Raw, chemist and druggist, Leeds.

NELSON—TUGWELL.—At St. Mark's Church, Highcliffe, Hants, on June 6, Harold Nelson to Nancy Margaret, daughter of Mr. P. T. Tugwell, chemist and druggist, Highcliffe.

## Deaths

BETTS.—At Erdington, Birmingham, recently, Mr. Charles Ernest Oscar Betts, chemist and druggist, aged seventy-one. Mr. Betts was the son of Mr. John Betts, chemist and druggist, Woodbridge, Suffolk.

HOWELL.—At Biggin Hill, Westerham, on May 31, Mr. Albert Howell, chemist and druggist. Mr. Howell qualified in 1913.

MATTHEWS.—On June 12, Mr. Charles William Matthews, Ph.C., 6 Fosters Road, London, N.W.5. Mr. Matthews, who passed the Major examination in 1881, was the original divisional secretary of the Pharmaceutical Society for North St. Pancras, serving in that capacity for fifteen years. He was a past-president of the North London Pharmaceutical Association, and acted as its treasurer for a long period. At the funeral, which took place at Golders Green Crematorium on June 16, the Association was represented by Mr. C. W. Andrew, Ph.C. (president), Mr. Herbert Skinner, Ph.C. (secretary), Mr. J. C. Young, Ph.C., Mr. A. W. Harrison, Mr. G. A. Tocher and Mr. J. Hearle.

O'NEILL.—Recently, Mr. Patrick O'Neill, L.P.S.I., The Square, Athway, Galway. Mr. O'Neill passed the Licence examination in 1916.

SCRASE.—At Burgess Hill, on May 25, Mr. Richard Scrase, retired chemist and druggist, aged eighty-nine.

SUTHERLAND.—At 126 North Montrose Street, Glasgow, on June 11, Mr. Alexander George Sutherland, retired chemist and druggist. Mr. Sutherland qualified in 1891.

## Personalities

MR. G. PLATT, M.P.S., Blackpool, for many years a district manager for Boots, Ltd., has recently retired after thirty-one years' service with the company.

MR. J. MILNER, M.P.S., Greenwich, London, S.E., has been awarded the £5 prize offered by the "News-Chronicle" for the best photograph taken on the "Queen Mary" excursion organised by that newspaper.

At the East Anglian Provincial Grand Mark Lodge, held at Norwich on June 11, W. Bro. J. Evans, M.P.S., Cam-

bridge, P.M., P.Z., was advanced to the rank of M.O. Mr. Evans already holds Provincial Rank in the Craft and the Arch in the Province of Cambridgeshire.

At the annual general meeting of the Drug and Fine Chemical Manufacturers' Association, held in London on June 12, Mr. D. Lloyd Howard tendered his resignation as chairman of the Association. Mr. Howard was a founder member and was the first chairman of the provisional committee formed in 1917. At the first general meeting in 1919 he was unanimously elected chairman of the Association, and has been re-elected unanimously at every subsequent annual meeting. The office, particularly in the early years, demanded especial qualifications, and it is due in no small degree to his guidance that the trade owes the freedom from labour troubles which it enjoys to-day. His resignation was accepted with deep regret, and the good wishes of the members, which are shared by the trade union representatives, on his retirement. Mr. G. Goodman Whiffen, of Whiffen & Sons, Ltd., was elected chairman of the Association.

## Business Changes

MR. J. C. SIMPSON, chemist and druggist, has opened a pharmacy at 56 King's Road, St. Leonards.

A. E. SINDEN, LTD., chemists, have removed from 4 Stamford Terrace to 7 Parkmore Terrace, Hassocks.

MR. G. F. GRANT, chemist and druggist, has acquired the business of Mr. John MacPhail, 119 Clevedon Road, Kelvin-side, Glasgow.

FRANCIS RIDDELL, LTD., are removing to Axtell House, Warwick Street, Regent Street, London, W.1, on June 20. Telephone: Whitehall 7681/2.

MR. B. STEVENSON, chemist and druggist, has acquired the business of the late Mr. J. McNeill, 14 Lynedoch Street, Greenock, Renfrewshire.

MR. A. SHANKLAND, chemist and druggist, has acquired the business of the late Mr. A. Campbell, chemist and druggist, 2 Dean Street, Kilmarnock.

HEPPELL'S (The Regent Chemists, Ltd.) are removing their warehouse, factory and offices to Allen House, 70 Vauxhall Bridge Road, London, S.W.1, on June 15 (Telephone: Victoria 2204).

## Wills

MR. FREDERICK HULBERT GIBSON, Beechmount, 481 Stratford Road, Old Trafford, Lancs., managing director of Robert Gibson & Sons, Ltd., Manchester and London, who died on February 11 last, left estate gross value £11,599, with net personalty £10,905.

ALDERMAN ROBERT HENDERSON HUME, 24 Priory Road, Edgbaston, Birmingham, schoolmaster, late chairman of Cuxson, Gerrard & Co., Ltd., manufacturing chemists, of Birmingham and Oldbury, and a member of the City Council since 1920, who died on January 25 last, aged seventy-four, left estate gross value £9,334 9s. 7d., with net personalty £3,422.

## Coming Events

This section is reserved for advanced notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

### Monday, June 22

British Pharmaceutical Conference. At 3.30 p.m., opening session at the Town Hall, Bournemouth. Welcome by the Mayor. Chairman's address. Reception by the Mayor at 8 p.m. The Conference ends on Friday, June 26.

### Saturday, June 27

Commercial Travellers' Benevolent Institution, 4B Frederick's Place, Old Jewry, London, E.C.2, at noon, half-yearly court of governors.

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On the "Chemists' Friends" List

## Information Department

### INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

- |                                |   |
|--------------------------------|---|
| E/16. Beautipon creme          | H/16. Phalon  |
| B/18. Borophen                 | E/16. Ridoworm                                      |
| L/15. Gavano tablets           | M/16. Tabacum, herbal treatment for travel sickness |
| E/16. Knoxall cleaning fluid   |   |
| G/18. Lactoflavine             | E/16. Tricoeum syrup                                |
| C/16. Peptonised cod-liver oil |   |



# THE CHEMIST AND DRUGGIST

VOL. CXXIV.

June 20, 1936

NO. 2941

## The Chemist's Dilemma

A NUMBER of years ago a celebrated playwright wrote a farcical tragedy entitled "The Doctor's Dilemma." Although the chemist's dilemma may not be described in the same terms, yet it is a very real one and in fact is ever present with the chemist in his everyday business life. The Pharmacy and Poisons Act, 1933, was bound to result in controversies in regard to the sale of poisons; yet even the most pessimistic person would hardly have imagined that discussion on the interpretation of this Act would have reached such proportions. It is safe to add that discussion on various points of this intricate Act are bound to continue until many of them are decided in courts of law. There is always the danger that pharmacy may suffer from the voicing of opinions by "pseudo-experts" with little advantage to the retail chemist, who is bewildered by the various expressions of opinion as to what he should or should not do. The final result, unless some change takes place, is that chemists will for obvious reasons be forced to refuse to handle poisons (which was their ancient privilege, if not right), lest by chance they may find themselves victims of a legislation of which few can speak with authority. The early effect of the restrictions on barbiturates and other fourth schedule poisons should first of all be noted. According to a letter which appeared in "The British Medical Journal" (June 6, p. 1181), signed by the secretary of the Pharmaceutical Society of Great Britain, physicians are alleged to have supplied these substances direct instead of issuing prescriptions. This tendency of medical practitioners has led the secretary to draw attention to the abuse of professional privilege. It is, however, difficult to believe that a protest in this direction is likely to be of much use, and the chemist can look upon the sale of such products as a vanishing part of his business; but it should be added that few, if any, chemists wished to extend the sale of what are apparently considered dangerous substances where the lives of their customers are concerned. It is a good thing for ideals to be protected by legislation where possible; yet pharmacists may voice the fact that in this particular case it means loss of business for them yet added revenue for the medical practitioner.

The point has to be stressed, for the official attitude on the sale of poisons appears to be a distinct restriction on pharmacy. Formalities regarding poisons legislation are assumed to consist of a simple routine readily acceptable by both customer and chemist. Anyone who has had experience of the retail trade knows well that in many instances the mere suggestion that it is necessary to sign a poisons book for certain substances means the loss of a sale and driving the customer to some other establishment where perhaps the seller has less rigid views in regard to selling poisons. There is apparently in official quarters a tendency to go beyond the present scope of the Act and Rules. A case in point is the declaration made in another place that certain crude drugs are subject to control in spite of the fact that they are not in the Poisons

List. Surely a wiser course would have been to follow the practice of the Home Office in saying that its advice is subject to the ruling of the law courts. Obviously differences of opinion are unavoidable if the law omits to make special mention of a drug but only of a potent derivative. The law provides that preparations containing a substance in the Poisons List are also to be deemed as poisons, but any assumption that a crude drug is a preparation of an alkaloid which it contains would surely be difficult to substantiate in a court of law. It would seem that the appropriate course would be to remove any doubt by specifying such drug in the Poisons List as has been done in a few instances, of which ergot and nux vomica are examples. This matter is one which should be dealt with by the Poisons Board. This question is, of course, as has been pointed out in the *C. & D.*, of importance in the merchandising of drugs by importers and wholesalers. If the official view were directed more towards telling a chemist what he can do instead of what he cannot do, there would perhaps be less unrest among the various members of the Society. One of the main objects of the Charter of which so much is heard when occasion arises was the protection of those who carry on the business of chemists and druggists. Pharmacists may well ask if this point of the Charter is being faithfully observed. To those who have paid attention to the poisons queries published week by week in *THE CHEMIST AND DRUGGIST*, there is hardly any need to point out the complexities which are concerned with carrying on business within the tortuosities of the new legislation. So far as *THE CHEMIST AND DRUGGIST* is concerned, every poisons query is carefully dealt with, and an opinion is expressed after due deliberation.

## Our International Trade Expanding

THE Trade and Navigation Accounts for May and the first five months of this year show a persistent expansion of our international trade. This would be wholly satisfactory but for the fact that the increase in our imports is greater than that of our exports. In two years our total shipments outwards of all classes of merchandise have increased in value by no less than £15,000,000 for the January-May period, while our imports have gone up by over £34,000,000. Hence our debit trade balance is up by a further £19,000,000 and now stands at £132,423,890 for the five months.

	All classes of Merchandise	Imports	U.K. Goods, Exports	Total Exports, including Re-exports
		£	£	£
May, 1936 ... ..		69,178,336	36,396,327	42,030,881
" 1935 ... ..		64,528,697	35,206,862	40,766,622
" 1934 ... ..		61,796,611	32,759,140	37,545,767
January-May, 1936...		335,667,912	175,852,585	203,244,256
" 1935...		302,072,560	173,578,041	197,219,022
" 1934...		301,311,350	157,608,085	182,315,878

The figures for the "Chemicals, etc." group for May show a welcome recovery following the disappointing returns of the previous two months. In April imports were over the million mark, but for May they dropped back to £956,000, while exports of home manufacture have increased from £1,639,000 in April to £1,811,000 in May.

For the five months imports were valued at £5,097,000, while our exports and re-exports of these classes of goods

Chemicals, Drugs, Dyes and Colours	May			January-May		
	1934	1935	1936	1934	1935	1936
Imports ...	£'000 956	£'000 891	£'000 956	£'000 4,702	£'000 4,516	£'000 5,097
Exports, U.K. manufactures	1,878	1,860	1,811	8,482	8,965	8,626
Re-exports ...	38.2	34.3	32.3	480.9	154.9	174.3

reached over £8,800,000, showing a credit balance of some £3,700,000, the best for some considerable time. The gradual fall in the value of our re-exports continues. In May of 1934, they totalled £38,200, in 1935, £34,300 and in May this year only £32,300. We are aware that an appreciable quantity of our imports are used as ingredients in exported home-made products while quantities are re-packed, thus losing their identity, and for these reasons the actual value of re-exports is probably double the figures shown in the official returns, but that does not account for the decline in our entrepôt trade in chemicals, which we venture to suggest is largely due to the lack of freedom in handling and re-packing goods in bond and Customs refusal to pay "drawback" on goods liable to the general 10 per cent import duty.

### Local Authorities' Purchases

IN our issue of August 24, 1935 (p. 239) we recorded the issue of a Ministry of Health report on "the Standardisation and Simplification of the Requirements of Local Authorities." A document of this type may mean much or little from a practical point of view; and for this reason we were not disposed to offer any observations upon it at the time of its appearance. We are not surprised to learn, however, that it has not been received with unalloyed satisfaction in trade circles. Arising out of a recent conference between representatives of the National Chamber of Trade, the National Federation of Grocers' and Provision Dealers' Associations, and the Drapers' Chamber of Trade, a joint memorandum from these three organisations has been submitted to the Minister of Health, challenging, in thirteen substantial paragraphs, some of the assumptions and conclusions of the Committee responsible for the report. The real crux of the matter, it seems to us, is contained in the following excerpt from paragraphs 8 and 9 of the memorandum:—

"For many years past Chambers of Trade and Commerce and specific trade organisations have sought to minimise the development of the system of county council and municipal central depôts and stores and to restrict their operations, believing that the claims of 'saving' would not stand the test of independent practical business investigation. This does not mean that we are opposed to the principle of bulk buying of some commodities and articles, subject to specification and open tender. There is a wide difference between bulk buying with split delivery under contract and purchase of large supplies for distribution through central depôts or stores, with consequent additional staffing, administrative and delivery expenses which, in our submission, 'run away' with more than the 'saving' secured by bulk purchases. . . . We doubt whether all the expenses connected with the operations of central stores are charged to them and we question whether, on many items, there is any real 'saving.' We also question whether the combination of bulk purchases by several local authorities are likely to effect

real 'savings' and certainly not sufficient to justify the deviation of supply channels from the county or town so served to other channels outside the county or town, to the disadvantage of trading ratepayers within the county or town through whom the business has hitherto been done. There is grave danger that the channel of supply in major commodities may become so narrow as practically to eliminate competition."

This reasoned protest is strengthened by reference to the remarks of auditors and by other pertinent illustrations. As far as we are aware, the Ministry is not definitely committed to action on its Committee's report beyond the issue, already made, of commendatory circulars to local authorities; and we trust that these bodies will regard themselves as entirely free to deal with tenders on their merits.

### Insulin Protamine Compound

INSULIN treatment has entered a new phase, according to "The Journal of the American Medical Association" (106, 20, 1701), by supplementing its administration with that of insulin protamine compound (briefly described as insulin-P). It may be obtained by precipitation from a solution of insulin hydrochloride with monoprotonamine compounds and suitable buffering. The authors of the monograph, Dr. Randall G. Sprague and his collaborators, give the following general account of the relative functions of the two products:—

"The immediate effect of insulin-P (insulin protamine compound) is much less than that of insulin-R (regular insulin). When the former is used alone, and given as a single dose before breakfast, the meals of the first few days provoke glycosuria, but when the dose is properly adjusted the level of the blood sugar on successive mornings decreases progressively and the elevating effect of meals diminishes until, by the end of from four to six days, a normal level of blood sugar may be attained even in cases of severest diabetes. Supplementing insulin-P with small doses of insulin-R will shorten the period of obtaining control. It has not been necessary to continue the supplementary use of insulin-R after the first few days in the milder cases, but probably in many cases such supplementary use of insulin-R will be desirable, especially in emergencies. Until more experience has been obtained it would appear that insulin-R will be the insulin of choice when quick action is desirable, as in the treatment of acidosis."

The authors add a definite warning that due precaution must be exercised in every case. Patients, they suggest, should be treated with it in hospital in the first instance, and before being allowed to use it at home should be fully instructed regarding diet, dosage and other necessary matters.

### An Unfortunate Criticism

DURING the debate in the House of Commons on the extension of the Key Industry Duties for a further period of ten years, Mr. Lees-Smith, in the course of his speech, said:—

"They are now asking us to set up a series of industries which have shown themselves to be stagnant and unprogressive, and which, behind this special shelter, will be able to continue, quietly and cosily, making easy money without any comment or criticism until the year 1946."

The findings of the Committee set up by the Board of Trade, who carried out a thorough investigation of the progress made by the protected key industries during the past fifteen years, were definite and to the effect that the fine chemical industry (the most important of the "Key" group) had made considerable progress . . . increased the range of products . . . improved and standardised quality . . . reduced prices . . . and was now a well-established industry. Those connected with the industry will acknowledge that the findings of this impartial Committee were no more than the facts fully justified. The usual licence allowed in parliamentary debate and the holding of views for or against a particular subject would not call for comment but, in view of the Board of Trade Committee's report, it is unfortunate, to say the least, that a prominent member of the House should be allowed to disparage British efforts and their success in creating a great and essential industry which gives employment to so many.



# Cosmetic Uses for Chamomiles

CHAMOMILE FLOWERS yield an essential oil, blue in colour, 0.35 to 0.5 per cent., as well as bitter substances. Externally the flowers are employed in many bath preparations and in dermatological conditions. The official chamomile—*Anthemis nobilis*—is cultivated chiefly in Belgium, but also in this country. Belonging to the compositæ, it resembles the common daisy, but its flowerheads are considerably larger. In the wild state, as still collected in Aberdeenshire, it has a single whorl of florets, but under cultivation its florets are greatly increased in number and become white in colour. *Matricaria chamomilla*, the "wild" or "German" chamomile, is official in Germany and has precisely the same appli-

flowers, which are then left in a closed vessel, shaken occasionally, for five to six days at a temperature of 15° to 20° C. They are then expressed, and the residue is treated in the same way with 150 gm. alcohol 90 per cent. and 230 gm. distilled water, but pressed after three days. The combined fluids remain two days in a cool place. Then they are filtered and 295 gm. alcohol distilled from the filtrate. The remaining fluid is evaporated to a thick extract, to which is added during evaporation the previously distilled alcohol, in order to keep a resinous secretion in the solution.

## SOLUTION OF CHAMOMILE EXTRACT

Chamomile extract	...	...	...	500 gm.
Glycerin	...	...	...	150 gm.
Alcohol 90 per cent.	...	...	...	50 gm.
Distilled water	...	...	...	300 gm.

To be dissolved by warming on a water bath.

## CONCENTRATED CHAMOMILE WATER

Chamomile flowers, coarsely powdered	1,000 gm.
Alcohol 90 per cent.	200 gm.

Chamomile in powder is moistened with the alcohol and allowed to stand for an hour in a covered dish. The moistened drug is placed in a still and 1,000 gm. distilled by direct steam. The result is a clear distillate, diluted for use with nine times the quantity of distilled water.

## CHAMOMILE COLD CREAM

White wax	...	...	...	117 gm.
Spermace	...	...	...	153 gm.
Liquid paraffin	...	...	...	450 gm.
Borax crystals	...	...	...	8 gm.
Distilled water	...	...	...	237 gm.
Liquid extract of chamomile	...	...	...	5 gm.
Chamomile water	...	...	...	25 gm.
Rose perfume	...	...	...	5 gm.

## NON-GREASY CHAMOMILE CREAM

Gelatin	...	...	...	5 gm.
Agar agar	...	...	...	5 gm.
White wax	...	...	...	7 gm.
Anhydrous wool fat	...	...	...	25 gm.
Stearic acid, amorphous	...	...	...	142 gm.
Sodium hydroxide about 15 per cent.	...	...	...	14 gm.
Solution of ammonia	...	...	...	14 gm.
Alcohol, 90 per cent.	...	...	...	11 gm.
Glycerin	...	...	...	215 gm.
Solution of chamomile extract	...	...	...	7 gm.
Tincture of benzoin	...	...	...	7 gm.
Distilled water	...	...	...	542 gm.
Perfume	...	...	...	6 gm.

## CHAMOMILE CREAM

Powdered boric acid	...	...	...	60 gm.
Powdered zinc oxide	...	...	...	60 gm.
Yellow soft paraffin	...	...	...	410 gm.
Anhydrous wool fat	...	...	...	395 gm.
Liquid chamomile extract	...	...	...	95 gm.
Liquid paraffin	...	...	...	70 gm.

## CHAMOMILE SKIN PASTE

Chamomile powder, very fine	...	...	...	150 gm.
Zinc oxide	...	...	...	100 gm.
Talc	...	...	...	247 gm.
White soft paraffin	...	...	...	450 gm.
Liquid paraffin	...	...	...	50 gm.
Perfume	...	...	...	3 gm.

Zinc oxide, chamomile powder and talc are mixed and sifted into the melted soft paraffin, then stirred with the pestle until cold.

## WRINKLE PASTE

Borax crystals	...	...	...	20 gm.
Glycerin	...	...	...	30 gm.
Solution of aluminium acetate	...	...	...	20 gm.
Dilute acetic acid	...	...	...	120 gm.
Kaolin	...	...	...	350 gm.
Chamomile, fine powdered	...	...	...	200 gm.
Chamomile water	...	...	...	50 gm.
Cologne essence	...	...	...	3 gm.
Distilled water	...	...	...	207 gm.



Photo]

[Stafford Allen & Sons, Ltd.

## Gathering Chamomiles at an English farm

cations in pharmacy and manufacture as the "true" or "Roman" chamomile.

The addition of chamomiles to cosmetics is claimed to have an effect comparable with that obtained by the addition of hamamelis extract. Formulas given below incorporate one of two extracts, a solution or concentrated water prepared as follows:—

## LIQUID CHAMOMILE EXTRACT

Finely powdered chamomile flowers	...	...	...	1000 gm.
Alcohol 90 per cent.	...	...	...	850 gm.
Distilled water	...	...	...	150 gm.
Glycerin	...	...	...	100 gm.
Alcohol 70 per cent.	...	...	...	a sufficiency

The finely powdered chamomile flowers are moistened with 500 gm. solvent (350 gm. alcohol 90 per cent. plus 150 gm. distilled water). This is put into a percolator and mixed with about 450 gm. alcohol in the same dilution. 650 gm. of the first percolate is put on one side. The remainder, to which has first of all been added 100 gm. glycerin, is steamed to 300 gm. of thin extract, which is dissolved in the first percolate and is made up to 1,000 gm. with alcohol 70 per cent.

## THICKENED CHAMOMILE EXTRACT

Chamomile flowers, coarsely powdered	120 gm.
Alcohol 90 per cent.	350 gm.
Distilled water	530 gm.
Distilled alcohol	12 gm.

A mixture of 200 gm. alcohol 90 per cent. and 300 gm. distilled water is poured over the coarsely powdered chamomile

## CHAMOMILE COMPLEXION WATER

Alcohol, 95 per cent. ...	452 gm.
Chamomile water ...	50 gm.
Chamomile extract ...	5 gm.
Distilled water ...	385 gm.
Borax crystals ...	5 gm.
Glycerin ...	100 gm.
Perfume ...	3 gm.

The borax is dissolved in the glycerin by careful warming on the water bath, added to the perfumed alcohol and the mixture added gradually to the water, chamomile water and extract.

## CHAMOMILE HAIR WASH

Alcohol, 95 per cent. ...	710 gm.
Distilled water ...	255 gm.
Solution of chamomile extract ...	20 gm.
Essential oil of chamomile ...	5 gm.
Perfume ...	10 gm.

## LIQUID POWDER

Zinc oxide ...	250 gm.
Glycerin ...	60 gm.
Distilled water ...	530 gm.
Tincture of benzoin ...	50 gm.
Gelatin ...	2 gm.
Chamomile water ...	105 gm.
Perfume ...	3 gm.

The zinc oxide is moistened with the tincture of benzoin and the gelatin dissolved after soaking for a short time in the distilled water. The zinc oxide is rubbed down with the glycerin and the chamomile water and the water and perfume stirred in.

## AROMATIC BATH EXTRACT

Chamomile powder, coarse ...	90 gm.
Powdered orris root ...	26 gm.
Alcohol, 95 per cent. ...	350 gm.
Distilled water ...	530 gm.
Distilled alcohol ...	4 gm.

## CHAMOMILE BATH TABLETS

Sodium chloride, dried ...	740 gm.
Dry extract of chamomile ...	50 gm.
White wax ...	7 gm.
Ether ...	30 c.c.
Agar agar, powdered ...	50 gm.
Distilled water ...	180 c.c.
Starch ...	93 gm.
Talc ...	40 gm.
Cologne essence ...	20 gm.

## EFFERVESCENT BATH TABLETS

Sodium chloride, dried ...	378 gm.
Sodium bicarbonate ...	200 gm.
Sugar of milk ...	50 gm.
Stearic acid, powdered ...	17 gm.
Ether ...	90 c.c.
Gelatin ...	9 gm.
Distilled water ...	75 c.c.
Aluminium sulphate ...	260 gm.
Talc ...	25 gm.
Dry chamomile extract ...	30 gm.
Cologne essence ...	20 gm.

## CHAMOMILE PACK

Coarse chamomile powder ...	700 gm.
Kaolin ...	295 gm.
Cologne essence ...	5 gm.

Before use the mixture is mixed with warm water to a thick paste and is applied for half an hour or until it is dry.

## Schimmel's Report

THE 1936 edition (German) of Schimmel's Report, recently published, is, as usual, full of interesting matter. Of new essential oils, recently examined, and which have not yet been referred to in our columns, we select the following:—

**OIL OF AGONIS ABNORMIS.**—Jones and White ("Chemische Zeitung," 1935, 2, 3846) have obtained 0.6 per cent. of oil from the leaves and twigs of this myrtaceous plant, having the following constants: S.g., 0.904; optical rotation +9°; refractive index, 1.4905; acid value, 1.7; ester value, 7.4; and ester value after acetylation, 16. The oil contains *d*-pinene 30-40 per cent., sesquiterpenes about 60 per cent., of which most is aromadendrene, and sesquiterpene alcohols 5-10 per cent.

**OIL OF ARISTOLOCHIA INDICA.**—Ras and his colleagues ("Journal of the Indian Chemical Society," 1935, 494) have obtained 0.5 per cent. of essential oil from the roots of this plant, having the following characters:—S.g. at 25°, 0.9525; optical rotation, -33.11°; refractive index at 25°, 1.5023; acid value, 2; ester value, 7.3; ester value after acetylation, 22.5. A new sesquiterpene, to which the name ischwarene has been given, was found in the oil. It boils at 130°-132° at 10 mm. pressure. A sesquiterpene ketone C<sub>15</sub>H<sub>22</sub>O, boiling at 118°-120° at 1 mm. pressure, and yielding a semicarbazone melting at 240° was also found, and has been named ischwarone. The corresponding alcohol C<sub>15</sub>H<sub>22</sub>OH, ischwarol, is also present, as well as traces of camphor, and esters of palmitic and oleic acids.

**OIL OF POPULUS BALSAMIFERA.**—The buds of this tree yield according to Goris and Canal ("Comptes Rendus," 1935, 1435, 1520), an oil which contains free acids, phenols, cinnamyl esters, and phenylethylcinnamic esters. There was also found a crystalline body, C<sub>16</sub>H<sub>16</sub>O<sub>4</sub>, melting at 168°, which proved to be identical with dihydrochalcone.

**OIL OF CLAUSENA WILDENOWII.**—Ras and Subramanian ("Proceedings of the Indian Academy of Science," I, A, 189) have examined the leaf oil of this plant and found it to have the following characters: S.g., 0.9317 and 0.9341 at 30°; optical rotation, -1.1° and -0.2°; refractive index at 30° 1.5114 and 1.5112; acid value, 0.4 and 1.2; ester value, 9.2 and 13.4; ester value after acetylation, 13.2 and 24.4. The oil contains α- and β-clausenane and di-α-clausenane, besides small amounts of geranic acid, esters and ketones.

**ADULTERATION OF GERANIUM OIL** calls for some strong comment, and the following three analyses are given of three oils,

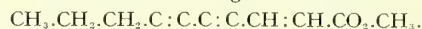
all of which were found to contain phthalic acid esters, phthalic anhydride melting at 130°-131° being isolated in each case.

	1	2	3
Specific gravity ...	0.9404	0.9198	0.9940
Optical rotation ...	-2° 50'	-1° 20'	-0.5°
Refractive index ...	1.4688	1.4677	1.4879
Acid values ...	2.7	2.3	0.4
Ester values ...	242.7	173.6	132.5
" " after acetylation	294.9	266.9	186.7
Apparent geraniol ...	101.6%	91.8%	59.7%

**SWEDISH PEPPERMINT OIL.**—A Swedish peppermint oil derived from *Mentha piperita* var. *officinalis forma rubescens* is described. The yield was 0.62 per cent., and the oil had the following characters: S.g., 0.9083; optical rotation, -27.4°; esters as menthyl acetate, 12 per cent.; free menthol, 51.5 per cent.; and menthone, 8 per cent. The oil is soluble in 2.8 or more volumes of 70 per cent. alcohol.

**RAMBLAZINA OIL.**—This oil is derived from the leaves and twigs of a species of *Helichrysum*, probably *H. Benthani*. It has been examined by Louveau and found to have the following characters: S.g., 0.8991 and 0.885; optical rotation -14° 24' and -9° 15'; refractive index, 1.4852; acid value, 0.6 and 8; ester value, 5.6 and 46; ester value after acetylation, 42 and 116. It contains about 11 per cent. of terpene alcohols (borneol, geraniol and probably linalol); 2 per cent. of esters as bornyl acetate; 1 per cent. of phenols; traces of camphor; 32 to 34 per cent. of eucalyptol and some sesquiterpenes.

**OIL OF LACHNOPHYLLUM GOSSYPINUM.**—The oil from this composite plant has been examined by Williams, Smirnow and Golmow. They find it to contain 58 per cent. of hydrocarbons, including pinene and camphene, and 30 per cent. of a compound C<sub>11</sub>H<sub>12</sub>O<sub>2</sub>, which has the following constitution



This body melts at 32°-33°.

Criticisms of the Hungarian and United States Pharmacopœias are included; eleven pages are devoted to the 1934 British Pharmaceutical Codex, and numerous corrections of limit figures, etc., are given.



## Wilson's Hints on Distilling

REFERENCE was made in our issue of March 14 (p. 301) to George Wilson's directions, in his "Compleat Course of Chymistry" (1699), to "The Manner of Distilling Essential Oils." These observations are worth quoting as an instance of the practical manner in which Wilson dealt with his subject.

"Observe, First, Few of these Oils are worth Distillation, except in great quantities, that is to say, several Still fulls.

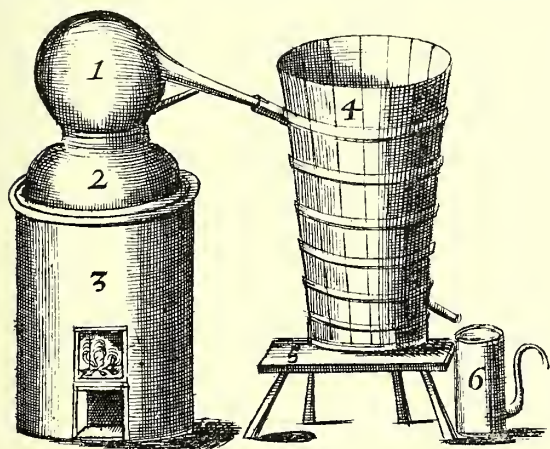
"Secondly, That you watch it at its first beginning to Distil, to prevent its boiling over; and if you think the little Stream runs too fast through the Worm, open the Door of the Fire-hole, and that will a little allay its vigour; if it be not sufficient, interpose a Fire-shovel between the Fire, and the bottom of the Alanbick, so as to keep it running in a small Thred, and after the first half Hour of its working, you may be more bold with the Fire.

"Thirdly, that you leave Water enough in the Still to secure the Matter in it contained from burning.

"Fourthly, that you return the Water you Distill'd off upon the fresh Matter in the Still, so long as it is the same Spice, Wood or Herb . . . you will have by returning it, more Oil from the said quantity of Wood, Seeds, or Herbs, the Second Distillation than you had the First.

"Fifthly, Also observe, That the Oils of Cinnamon, Cloves and Sassafras . . . sink to the bottom of the Water, and all the rest of the Essential Oils swim upon the Surface of Water.

"Sixthly, Observe, that the Oils of Anni-seed, Sweet Fennel-seed, and Roses, will coagulate; therefore you ought so to order your Matter towards the latter end of your Distillation, to keep the Worm warm to the very Nose of it, by which means the Coagulated Oil melts down into the Receiver."



STILL DESCRIBED IN "WILSON'S "COMPLEAT COURSE OF CHYMISTRY"

Biographical details of this remarkable chemist were given in our Special Issues of July 10, 1926, and June 28, 1930.

MORE than £14, the proceeds from two cricket matches played between a chemists' eleven and doctors' and police teams, has been given to the Mayor of Blackpool's Fund for the New Victoria Hospital by the Blackpool Branch of the Pharmaceutical Society.

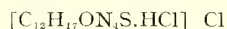
STAR-SPANGLED STANDARDS.—"Because of it [U.S.P., XI] ergot, that marvellous but much maligned medicament of the painful birth bed, is now more than ever guarded against guile and greed and against the strange decay to which it is so inherently disposed. Still barnyard standardised, its circulating kick is measured on the rooster's comb—except that this new medical Bible insists upon a better standard than the old. . . . Because of the authoritatively, exquisitely accurate book there is available a new national antiseptic, a mild tincture of iodine, kinder to skin and more tender to tissue, yet nearly five times as strong in microbe murder as carbolic acid itself."—"The American Journal of Pharmacy."

## A New Vitamin Study

LECTURE reported in a recent issue of "The Lancet" (5882, 1161), under the title "The Biochemical Lesion in Vitamin B<sub>1</sub> Deficiency," gives details of a recent study in biochemical analysis. The author is Dr. Rudolph A. Peters, Whitley Professor of Biochemistry at Oxford University. It may be remembered that in our issue of April 18 (p. 455) we summarised the findings of Dr. J. H. Quastel obtained in research on brain enzymes and abstracted in the "Proceedings of the Royal Society of Medicine." The subject, at a first glance, may have appeared to be somewhat academic; but Dr. Peters has apparently made the enzymic abnormalities of brain tissue the starting point, or one of the starting points, for his investigation. His lecture should be read in full by those interested in the technique of this type of biochemical exploration; we may, however, quote his own summary given at the end of the paper:—

"New methods of biochemical enzyme analysis have been applied by workers in the Department of Biochemistry, Oxford, to the problem of the origin of acute opisthotonus symptoms in pigeons suffering from vitamin-B<sub>1</sub> deficiency. There is found to be a defect in the power of oxidising certain carbohydrate intermediates in the central nervous system (especially in the lower parts of the brain); the most important substances concerned specifically with the avitaminosis are lactic (CH<sub>3</sub>.CHOH.COOH) and pyruvic acids; of these the "biochemical lesion" is most closely related to the oxidation of pyruvic acid (CH<sub>3</sub>.COCO.OH). Addition of minute amounts of crystalline vitamin B<sub>1</sub> *in vitro* to the avitaminous (not normal) brain tissue restores the diminished tissue respiration. This is not only the first clear instance of the experimental realisation of an *in-vitro* action of a vitamin, but it constitutes a useful method of assaying vitamin B<sub>1</sub>. This vitamin is a catalyst used by the tissue at some stage in the combustion of carbohydrate. Defect in this stage within the central nervous system will lead readily to convulsions. The researches decide that two prominent theories of the action of vitamin B<sub>1</sub> were both partly true. Both avitaminous pigeon and rat brain (but not normal) produce pyruvate *in vitro*; the presence of added vitamin B<sub>1</sub> removes this pyruvate. The blood of these animals with vitamin-B<sub>1</sub> deficiency has present pyruvic acid in relatively large amount, which disappears upon dosing with vitamin. In China, pyruvate has also been detected in the blood of beri-beri patients; so that there is a direct connexion between the animal and human conditions. These observations emphasise the importance of biochemical studies in relation to the central nervous system."

In a footnote Professor Peters adds that vitamin B<sub>1</sub> has now been isolated from yeast and rice polishings in crystalline form as the hydrochloride in several laboratories; the crystals are either thin plates or needles. It contains sulphur and has the formula



and according to the latest suggestions is a pyrimidinethiazole compound. The compound will cure pigeons in a daily dose of 2.07 (0.002 mgm.) which also constitutes the international vitamin B<sub>1</sub> unit. It is precipitated in very dilute solution by phosphotungstic acid, and gives a specific diazo test under special conditions.

BREATH OF THE PINE FORESTS?—"There used to be a widespread belief that the smell of the Glasgow subway cable, which was impregnated with a commodity called (I believe) Archangel tar, had healing properties, and that a sniff of the civic catacombs was better than any expensively bottled inhalant."—A contributor to the "Glasgow Times."

ALL DO NOT MAKE IT PAY.—A subscriber (8/6) sends us the following conversation, overheard in a pharmacy:—

Customer: Can I buy sheep dip now?

Chemist: Certainly; why?

Customer: I went into a shop yesterday and the man behind the counter nearly bit my head off when I asked him for a small packet of sheep dip. He said he did not keep the stuff now because the amount he sold would not cover the cost of the licence.

## Japanese Pyrethrum

THE production and export returns for the years 1917 to 1934, and the estimate of crop for 1936 with probable prices are as follows:—

Production				
Year	Hokkaido	Honshu	Total	
	Tons	Tons	Tons	
1917 ... ..	25	3,490	3,515	
1918 ... ..	25	2,650	2,684	
1919 ... ..	30	1,632	1,662	
1920 ... ..	52	1,779	1,831	
1921 ... ..	192	1,788	1,980	
1922 ... ..	381	1,817	2,193	
1923 ... ..	700	1,893	2,593	
1924 ... ..	1,620	2,943	4,563	
1925 ... ..	3,001	3,748	6,848	
1926 ... ..	4,494	3,911	8,405	
1927 ... ..	2,866	1,221	4,087	
1928 ... ..	3,292	1,818	5,110	
1929 ... ..	3,553	2,418	5,971	
1930 ... ..	3,506	3,433	6,939	
1931 ... ..	2,768	3,439	6,207	
1932 ... ..	2,953	2,842	5,795	
1933 ... ..	3,137	3,234	6,371	
1934 ... ..	2,983	4,964	7,947	

Exports					
Year	Amount	Value	Year	Amount	Value
	Tons	Yen		Tons	Yen
1917 ... ..	1,741	1,116.10	1926 ... ..	3,918	3,508.10
1918 ... ..	1,427	984.80	1927 ... ..	4,037	3,060.70
1919 ... ..	3,200	3,227.00	1928 ... ..	6,041	7,296.00
1920 ... ..	1,305	2,553.70	1929 ... ..	4,803	4,251.80
1921 ... ..	504	551.50	1930 ... ..	3,572	2,638.44
1922 ... ..	1,779	3,357.20	1931 ... ..	2,590	1,681.25
1923 ... ..	1,390	2,213.40	1932 ... ..	5,591	4,752.30
1924 ... ..	2,044	3,611.90	1933 ... ..	5,009	6,349.94
1925 ... ..	3,289	5,721.60	1934 ... ..	5,542	7,447.00

The following is a report of a meeting of the Japanese Pyrethrum Association, held at Fukuyama:—

Prefectures	Stocks of 1935 Crop	Estimates for 1936 Crop
	Tons	Tons
Okayama ... ..	1,665.87	1,240.13
Hiroshima ... ..	1,302.88	2,520.85
Ehime ... ..	228.84	1,225.37
Kagawa ... ..	103.35	989.15
Wakayama ... ..	221.46	1,734.71
Yamaguchi ... ..	92.28	922.72
Hokkaido ... ..	276.82	5,351.74
Osaka and Kobe ... ..	387.54	—
Other Prefectures ... ..	—	922.72
Total ... ..	4,279.04	14,907.39

Prefectures	Area of 1936 Crop
	Acres
Okayama ... ..	3,730
Hiroshima ... ..	5,875
Ehime ... ..	3,875
Kagawa ... ..	2,625
Wakayama ... ..	5,000
Yamaguchi ... ..	2,075
Hokkaido ... ..	52,500
Osaka and Kobe ... ..	—
Other Prefectures ... ..	3,125
Total ... ..	78,805

The members cast their votes anticipating the price of Pyrethrum for July 1936:—

	Yen
Highest price ... ..	665.01 per ton
Lowest price ... ..	270.32 per ton
Average price ... ..	496.82 per ton

It will be seen that the stock on hand this year is nearly seven times as large as last year's, while the estimated yield is 30 per cent. higher. Hence the average price expected is much lower—i.e., only 56 per cent. of last year's.

## Herba Teucii Mari

By Professor Dr. Antun Vrgoč, University of Zagreb

IN the materia medica of the whole world there are very few really effective cholagogues. The Zagreb school of the internist University Professor Dr. Karl Radoničić has used *Herba Teucii Mari* for twenty years, and it has consequently been incorporated in the new Jugo-Slav Pharmacopœia. *Teucrium Marum* occurs in south-west and middle Europe, i.e. in the south of Spain, south of France, the Balearic Islands, Corsica, Sardinia. It is cultivated in gardens, and it also grows wild—for instance, in Dalmatia. We do not know its chemistry; but according to Wehmer, *Teucrium Marum* contains essential oil, a bitter substance, resin, tannin, malic acid and marum camphor; there is another analysis by Bley. The drug will be subjected to an exact chemical examination.

Professor Dr. K. Radoničić told me, in reply to my questions, how *Teucrium Marum* acts and the results he obtained with the use of this drug. He wrote: "I and my school have used 'Extractum Mari Veri Fluidum' for twenty years. I took over this medicament from Professor Dr. Neusser, the famous Vienna clinical expert, who, in the eighties and nineties of last century, very often prescribed *Teucrium Marum* and used it himself at his world-famous Vienna school. The clinical practitioners have forgotten about this remedy, but it is still being prescribed by a few physicians in Karlsbad. I and my school use this medicament for cholelithiasis . . . . I obtained good results with the medicament, as I have ascertained objectively, and as was confirmed by the subjective statements of nearly all patients. I gathered this experience from several thousand cases in clinical as well as visiting practice."

*Teucrium* has been used in medicine from the oldest times. According to Dioscorides *teucrium* is a herb similar to chamædrys. It has the power to soften the spleen. Chamædrys helps with cramp, cough, hardening of the liver, retention of urine, dropsy, and other ailments. Croatian domestic medicine uses *teucrium* in the same way as the older medicine. One finds, for instance, in the records of popular medicine, that one should pound together plants of *Teucrium Marum* and *Chelidonium* against jaundice, squeeze out the juice, and drink doses of it on an empty stomach. From this and other historical facts it appears that *Teucrium Marum*, as well as other varieties of *teucrium*, have been employed since the oldest times for liver and bladder diseases, and that other *teucrium* varieties, such as *T. scordium* and *T. botrys*, have no effect on the liver and the gall. *T. Marum* was official in the Austrian Dispensatorium of 1780 and in the Spanish Pharmacopœia.

## Oil of Cyperus Rotundus

THE results of an investigation of the ketone  $\alpha$ -cyperone by Bradfield, Hedge, Rao, Simonsen and Gillam have just been published. It will be remembered that Rao isolated this sesquiterpene ketone and stated that it was, like eremophilone, a eudalene derivative ("Journal of the Chemical Society," 1935, 785). In the present paper the authors (Ibid., 1936, 667) state that the ketone can be purified through its semicartazone, melting at 216°. Its composition is  $C_{15}H_{22}O$ . It is dicyclic and contains two ethyleric linkages. The somewhat anomalous reactions which this ketone undergoes led the authors to assign one of two alternative formulas to it, but further work has shown that neither formula is valid (Ibid., 1935, 785) and the constitution now established is given in the present paper. This work is of considerable importance, and the original paper should be consulted for details.



# Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, June 18

BUSINESS IN MOST MARKETS has been none too brisk this week. The home consuming demand has been about average but, due to prevailing unsettled conditions and currency problems, our near Continent trade seems to have practically ceased for the time being. Although there has been no further marked weakening in the gold standard currencies, the outlook is so uncertain as to make business somewhat hazardous. In the PHARMACEUTICAL CHEMICALS markets the chief alteration in prices recorded is the reduction in the scales for IODIDES, due to the sharp decline in CRUDE IODINE a fortnight ago. The delay in giving effect to the cheaper raw material seems to have been due to some sources, not necessarily English, holding the opinion that at the old rates the salts were at sufficiently low figures. QUININE SALTS are steady at last week's advance. SALICYLATES are unchanged. Business generally has been on about average lines. The Combine's prices for KEROSENE, standard white and water white, have been advanced to-day by  $\frac{1}{4}$ d. per gallon.

## Crude Drugs

A number of items in this market continue to receive fair inquiry, and the general tone is steady, with many items firm. AGAR has sold better on spot and afloat. The few remaining boxes of CAPE ALOES are dearer and firm; nothing available for shipment. SIAM BENZOIN has sold well and spot stocks are now short. BUCHU continues to move to higher prices, and, including arrivals this week, spot stocks are extremely short. The almost entire lack of offers and smallness of the new crop CASCARA SAGRADA makes this market particularly strong. COLOCYNTH pulp is dearer on spot, following last week's advance in shipment prices. Better demand for DAMIANA LEAVES at slightly cheaper prices. SUDAN GUM ACACIA is quoted, spot and shipment, at a good advance, but business does not seem to have been of much account. LOBELIA HERB tends to weaken a trifle on spot. MENTHOL has again been mostly dull. In RHUBARB an arrival of Shensi pickings is noted. All grades of TRAGACANTH continue very steady and in restricted selection on spot. WAXES are generally unchanged and quiet.

## Essential Oils

Rather slow markets are reported here, and competition in a number of products is becoming keen. ANISE (STAR) is dull, spot and forward. BERGAMOT and Sicilian hand-pressed LEMON have been neglected and business is not likely to be normal until the subject of Sanctions has been settled at the end of the month. CASSIA is still cheap for shipment, but business is slow. Fairly important shipment business reported in JAVA CITRONELLA, purchased in Dutch currency. CALIFORNIAN LEMON in very short supply here, and the outlook for further shipments is poor. LEMONGRASS remains neglected at the current cheap shipment figure. Steady demand on spot for French Guinea ORANGE selling at advancing prices; practically nothing now offering from the source to come forward. The spot demand for Japanese PEPPERMINT is sustained and holders have refused to shade their prices for substantial quantities; Japanese shippers' quotations for the near positions are also being steadily maintained.

## Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	June 18	Value of the £
Amsterdam ...	Fs. to £	12.107	7.44	12/3½
Berlin ...	Mks. to £	20.43	12.49	12/2½
Brussels ...	Belgas to £	nominal	29.74	16/11½
Copenhagen ...	Kr. to £	18.159	22.40	24/8
Lisbon ...	Esc. to £	110	109½	19/11½
Madrid ...	Ptas. to £	25.22½	36½	28/11½
Milan ...	Lire to £	92.46	64	13/10
Montreal ...	Dol. to £	4.86½	5.03½	20/8½
New York ...	Dol. to £	nominal	5.02½	20/7½
Oslo ...	Kr. to £	18.159	19.90	21/11
Paris ...	Fr. to £	124.21	76½	12/3½
Prague ...	Kr. to £	164.25	121½	12/3½
Stockholm ...	Kr. to £	18.159	19.39½	21/14
Warsaw ...	Zloty to £	43.38	26½	12/3½
Zurich ...	Fr. to £	25.2115	15.57	12/3½

Bank rate 2 per cent.

## Pharmaceutical Chemicals, etc.

BUSINESS has continued on rather quiet lines, with the general tone steady. The chief alteration in prices recorded this week is the reduction in iodides. The advance in quinine salts notified last week is steadily maintained.

AMIDOPYRINE.—Dealers' prices are keen but business is slow: crystals, five cwt., 18s. 0½d.; two cwt., 18s. 5½d.; less than two cwt., 18s. 10½d. per lb., with powder 2½d. per lb. extra.

AMMONIUM ICHTHIOSULPHONATE.—Average spot business, market steady: one cwt., 1s. 6½d.; in 14-lb. tins; 1s. 8d., in 1-lb. tins; 1s. 10½d., in 8-oz. tins, and 2s. 1d. per lb., in 4-oz. tins.

ASPIRIN.—Makers' scales of prices fully maintained: home trade, ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 28 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 4 lb., 3s. 2d.; 1 lb., 3s. 4d. per lb. Bulk packing free, net, carriage paid. Contracts: Over twelve months minimum one ton; over six months, less than one ton.

BAKBITONE.—Remains dull and unsteady: spot, two cwt., 15s. 3½d.; 56 lb., 15s. 8d.; small parcels, up to 16s. 3d. per lb.

BENZOIC ACID (B.P.).—Fair inquiry, market fully steady: quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. 3d. per lb., as to quantity.

BISMUTH SALTS.—Makers' scales of prices are steady, fair demand: Carbonate, B.P., one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; less than 8 lb., 8s. 6d. per lb., with rebates on contracts for larger quantities.

BROMIDES.—Makers' and dealers' scales of prices continue at the recent advance. The home trade prices are: Potassium B.P., not less than five cwt., 1s. 7d.; not less than one cwt., 1s. 8d.; not less than 28 lb., 1s. 11d.; 14 lb., 2s. 1d. per lb. Sodium, B.P., not less than 5 cwt., 1s. 9d.; not less than 1 cwt., 1s. 10d.; not less than 28 lb., 2s. 1d.; 14 lb., 2s. 3d. per lb. Ammonium, B.P., not less than 5 cwt., 1s. 10d.; not less than one cwt., 1s. 11d.; not less than 28 lb., 2s. 2d.; 14 lb., 2s. 4d. per lb., net. 28 lb. parcels and one cwt. cases free. Distributors' prices for quantities less than 14 lb. would be at higher figures. Scales of prices for export, quoted f.o.b. London for prompt shipment, are as follows: POTASSIUM, 5 cwt., 1s. 1½d.; one cwt., 1s. 2d. SODIUM, 5 cwt., 1s. 2½d.; 1 cwt., 1s. 3d. AMMONIUM, 5 cwt., 1s. 4d.; one cwt., 1s. 4½d. per lb. Contracts over a period are not being booked.

CITRIC ACID (B.P. CRYSTALS).—Seasonal business continues: British material quoted at 1s. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

CREAM OF TARTAR.—Fair business, market continues steady: British material, 99 to 100 per cent., 79s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

GUAIACOL CARBONATE.—Makers and dealers are quoting in the region of 9s. per lb., as to quantity.

HEXAMINE.—Makers' prices for bulk quantities are competitive: fair business: B.P. powder, from 1s. 3d. to 1s. 4d.; free-running crystals, from 1s. 6d. to 1s. 8d. per lb., carriage paid, for bulk lots. Dealers quoting free-running crystals, two cwt., 1s. 6d.; one cwt., 1s. 6½d.; 14 lb., 1s. 10d.; smaller parcels, up to 2s. per lb., carriage paid.

IODIDES.—Makers notify a reduction in the scales of prices for these salts, as follows: POTASSIUM IODIDE, B.P., for quantities not less than one cwt., 4s. 6d.; 28 lb., 4s. 8d.; 14 lb., 4s. 10d.; 7 lb., 5s. 4d.; 4 lb., 5s. 10d.; smaller quantities, 6s. 6d. per lb. SODIUM IODIDE, B.P., for quantities not less than 28 lb., 5s. 6d.; 14 lb., 5s. 8d.; 7 lb., 6s. 2d.; 4 lb., 6s. 10d.; smaller quantities, 7s. 10d. per lb. IODINE, B.P., resublimed, for quantities not less than one cwt., 5s. 6d.; 28 lb., 5s. 8d.; 14 lb., 5s. 10d.; 7 lb., 6s. 4d.; 4 lb., 7s.; smaller quantities, 7s. 11d. per lb. IODOFORM, B.P., crystal, precipitated or powder, for quantities not less than 28 lb., 8s.; 14 lb., 8s. 2d.; 7 lb., 8s. 10d.; 4 lb., 9s. 8d.; smaller quantities, 10s. 8d. per lb. Sales terms: Contracts for one cwt. or more (assorted if required) with "Fall Clause," for delivery over four months. No rebate now applies. Packages: Tins, 28-lb. jars and one-cwt., cases, free. Bottles extra or returnable within three months, carriage paid. Delivery: Carriage paid on all quantities. Re-sale: It is a condition of sale that buyers undertake not to re-sell at prices below or on terms other than those ruling at the time of re-sale.

LACTIC ACID (B.P.).—A very fair inquiry, market steady: quantities in carboys, 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. to 1s. 10d. per lb., as to quantity.



**MERCURIALS.**—Makers' prices for the salts are keeping steady: Chloride, B.P., not less than one cwt., 4s. 11d.; less than one cwt., from 5s. per lb. upwards, as to quantity.

**METHYL SALICYLATE.**—Market remains dull: spot, ten cwt., 1s. 2½d.; five cwt., 1s. 3d.; one cwt., 1s. 3½d.; less than one cwt., 1s. 3½d.; small quantities, in bottles, up to 2s. per lb.

**METHYL SULPHONAL.**—Quotations very keen, business slow: two cwt., 19s. 3½d.; one cwt., 19s. 9½d.; 56 lb., 20s. 2½d.; small parcels, 20s. 8d. per lb.

**PHENACETIN.**—Market continues steady at current low level of values: crystals or powder, bulk quantities, 2s. 6d. to 2s. 7d.; smaller parcels, 2s. 7½d. to 3s. per lb.

**PHENAZONE.**—Very keen competition for a small business: crystals, five cwt., 8s. 9½d.; two cwt., 9s. 0½d.; and less, 9s. 3d. per lb., with powder, 2½d. per lb. extra.

**POTASSIUM SULPHOGUAIACOLATE.**—Quoted prices are at about 6s. 3d. to 6s. 4½d. per lb., as to quantity. Market dull.

**QUININE SALTS.**—Convention prices were advanced as follows from June 8: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9½d.; salicylate, 2s. 10½d.; hydrochloride, 2s. 8½d.; bihydrochloride, 3s.; hydrobromide, 2s. 8½d.; bihydrobromide, 3s.; valerianate, 3s. 8d.; hypophosphite, 4s.; alkaloid, 3s. 0½d. per oz., carriage paid on bulk quantities; 100-oz tins free, smaller packages extra.

**RESORCIN.**—British material only available: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., up to 6s. per lb.

**SACCHARIN.**—The Convention price for 550 is 37s. 6d. per lb., duty paid, with rebates for quantities.

**SALICYLIC ACID (B.P.).**—A dull market, quoted unchanged: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 8d.; 14 lb., 1s. 9d.; 7 lb., 1s. 10d.; 4 lb., 2s. per lb.

**SALOL.**—Spot market is steadier at the recent reduction: two cwt., 3s.; one cwt., 3s. 0½d.; 56 lb., 3s. 1½d.; smaller parcels, from 3s. 2d. per lb. Powder, 2½d. extra.

**SANTONIN.**—Dealers' quotations for outside parcels holding at about £23 to £26 per kilo. No change in first-hand prices: not less than 50 kilos., £35 12s. 6d.; not less than 25 kilos., £36 1s.; not less than 10 kilos., £36 9s.; not less than 3 kilos., £36 17s.; not less than 1 kilo., £38 13s. 6d.; less than 1 kilo., £39 13s. 6d. Special prices are in operation for export to all markets.

**SODIUM BENZOATE (B.P.).**—Continues to receive fair inquiry, market competitive: bulk quantities, 1s. 6d.; one cwt., 1s. 7d.; smaller parcels, 1s. 8d. to 1s. 10½d. per lb., as to quantity.

**SODIUM DIETHYLBARBITURATE.**—Spot values continue at the reduction recently notified: spot, one cwt., 13s. 3d.; 28 lb., 13s. 6d.; 14 lb., 13s. 9d.; 7 lb., 14s.; smaller parcels, up to 14s. 6d. per lb.

**SODIUM SALICYLATE (B.P.).**—Business of small account, quoted unchanged: home trade, crystals or powder, five cwt., 1s. 8½d.; one cwt., 1s. 9d.; 28 lb., 2s.; 14 lb., 2s. 2d.; 7 lb., 2s. 3d.; 1 lb., 2s. 6d. per lb.

**SIRYCHNINE SALIS.**—Makers' prices are steady:—

	Under 16 ozs.	16 ozs.	35 ozs.
	Per oz. s. d.	Per oz. s. d.	Per oz. s. d.
Alkaloid cryst. ...	2 8½	2 7	2 6½
Alkaloid powder ...	2 7½	2 6	2 5½
Bisulphate ...	2 2½	2 1	2 0½
Hydrochloride ...	2 5½	2 4	2 3½
Nitrate ...	2 3½	2 2	2 1½
Sulphate cryst. ...	2 4½	2 3	2 2½

25-oz. containers, free; 1-oz. bottles, 2½d.; 2-oz. bottles, 3½d. Other conditions as usual. Lower prices for bulk quantities. Wholesale distributors' prices for small quantities would be dearer.

**SULPHONAL.**—Business negligible, very keen quotations: crystals or powder, two cwt., 15s. 5½d.; one cwt., 15s. 10½d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 9d. per lb.

**TARTARIC ACID (B.P. CRYSTALS).**—Seasonal demand, with quoted values steady: British makers quote at 1s. per lb., less 5 per cent. discount. Dealers offering foreign materials at competitive prices.

**THEOBROMINE.**—Continental material: pure, two cwt., 7s. 10d.; one cwt., 8s.; 56 lb., 8s. 2d.; smaller quantities, 8s. 4d. per lb. Sodium salicylate, two cwt., 6s. 3½d.; one cwt., 6s. 4½d.; 56 lb., 6s. 5½d.; smaller quantities, 6s. 6½d. per lb., delivered, 5-lb. tins free, smaller packages extra.

**THYMOL.**—Business remains rather slow: fine white, two cwt., 5s. 10d.; one cwt., 6s.; 56 lb., 6s. 4d.; 28 lb., 6s. 9d.; smaller parcels, 7s. 6d. per lb.; ex ajowan seed, one cwt., 8s. 7d.; 56 lb., 8s. 10d.; 28 lb., 9s. 4d.; 14 lb., 10s. per lb.

**VANILLIN.**—Market has been rather quiet, steady: ex clove oil or guaiacol, five cwt., 12s. 9d.; one cwt., 13s.; 56 lb., 13s. 3d.; less, 13s. 9d. per lb.

## Crude Drugs, etc.

**ACONITE ROOT.**—Dealers have been doing a fair business, with Napellus quoted at 67s. 6d. per cwt. for small spot parcels.

**AGAR.**—A moderate spot consuming demand and the Baltic countries have taken fair quantities on spot and afloat: spot, Kobe No. 1, 2s. 7½d.; No. 2, 2s. 5d.; Yokohama No. 1, 2s. 4½d. per lb.; shipment, Kobe No. 1, 2s. 5d.; No. 2, 2s. 3d.; Yokohama No. 1, 2s. 2d. per lb., c.i.f.

**ALOES.**—The few cases of Cape on spot are firm at a further advance. Nothing offering for shipment, but one advice mentioned 53s., c.i.f., shipment "as soon as possible." Cape, spot, firm at 62s. 6d.; shipment, nominal. Curaçao, spot, 97s. 6d. to 115s., as to quantity; shipment, from origin, 86s. per cwt., c.i.f.

**ANTIMONY.**—Crude Chinese for June-July shipment is now quoted at £25, c.i.f. English regulus is unchanged at £66 10s. to £67 10s., spot.

**ASAFETIDA.**—Dealers are quoting cases of sticky blocked tear at 87s. 6d. to 90s. per cwt., spot.

**BALSAMS.**—Continues steady, business moderate: *Tolu*, 1s. 9d.; *Canada*, 2s. 10d.; *Peru*, 5s. 4d. per lb., spot.

**BARBASCO ROOT.**—Market has been rather dull: spot, material testing 6.3 per cent. rotenone, 1s. 4½d. per lb. Shipment, June-July, 10½d. per lb., c.i.f.

**BELLADONNA.**—Dealers continue to do some small business: leaves, 60s.; root, 50s. per cwt., spot.

**BENZOIN.**—Quite a nice business is reported in Siam, which is now in short supply and firm: pea size, £22; small peas, £20; blocky seed, £17 per cwt. Sumatra in free supply: middling small almonds, 86s.; fair almonds, £5 5s. to £6 7s. 6d. per cwt.

**BUCHU.**—There have been arrivals of a few bales of rounds and ovals. The sales of the last week have more or less balanced these new goods and supplies continue very short. Holders are now asking 2s. 3d. to 2s. 4d. for fair to good rounds, with some mixed yellowish limited at 2s. 1d. The few bales of ovals now available are firm at 1s. 11d. These quotations may be withdrawn and further advances recorded.

**BURDOCK ROOT.**—Spot supplies of root are being quoted at about 45s. per cwt. for small parcels.

**CARDAMOMS.**—Not much inquiry at the moment, but, owing to the very limited supplies of all grades and descriptions, prices continue firm. Indian seeds, spot, 4s. 3d.; shipment, 4s. per lb., c.i.f.

**CASCARA SAGRADA.**—Spot stocks are very firmly held, with 1933 peel at 56s. to 57s. 6d. and 1935 peel, where available, at 53s. per cwt. There is plenty of inquiry for the new crop peel, but shippers seem unable to make any offer. Bids cabled out in the region of 44s., c.i.f., have so far been ignored. Thursday: Cable advises peel coming in very slowly; business reported at 44s., c.i.f., with no other offers; general position very strong.

**CHAMOMILES.**—The demand on spot has been slow, with mixed colour at 90s. up to 110s. per cwt. for fair white flowers.

**CLOVES.**—Market continues fully steady at last week's slight advance: Zanzibar, spot, 7½d.; shipment, 7½d. per lb., c.i.f.; Madagascar, in bond, 6½d.; shipment, 6½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended June 13 were 88 and the deliveries nil, leaving a stock of 1,777. From January 1 to date the landings of Zanzibar have been 2,134 and the deliveries 1,432. Landings of Madagascar for the week ended June 13 were 100 and the deliveries 107, leaving a stock of 1,890. From January 1 to date landings of Madagascar have been 1,756 and the deliveries 1,428 packages.

**COCOA BUTTER.**—Market continues steady: Prime English, 10½d. to 11d. per lb. Foreign, 9½d. to 10½d. per lb., as to quantity.

**COCONUT (DESICCATED).**—Fair business, with values fully maintained: spot, fine, 23s. 6d.; medium, 23s. per cwt.; shipment, June, 21s.; July, 20s. 9d. per cwt., c.i.f.

**COD-LIVER OIL.**—Bergen reports Finmarken fishing practically concluded, with no substantial addition to the oil crop. Shipment market is seasonally dull. Finest Lofoten steam refined non-freezing medicinal oil, 84s. to 85s. per barrel, c.i.f. London: spot, in small lots, 126s. per barrel, ex store, duty paid. Newfoundland non-freezing medicinal oil, about 130s. per barrel, ex store. British non-freezing medicinal oil is quoted at 100s. per barrel, London, duty free, while quotations from another home source are at higher figures.

**COLCHICUM.**—Dealers are offering spot supplies at about 42s. 6d. per cwt. for small parcels.

**COLOCYNTH.**—The report of firmer shipment conditions noted last week is confirmed with the figure at 2s., c.i.f., for U.S.P. quality pulp. On spot, the price has advanced with the figure now firm at 1s. 10d. per lb., in bond.

**CUTTLE-FISH BONE.**—Market is still on the quiet side, with fair East Indian at 6½d. to 10½d. per lb., spot.

**DAMIANA LEAVES.**—At the lower prices now quoted for fair quantities business has been quite good: spot, 8d. to 9d. per lb., as to quantity.

**DANDELION ROOT.**—Dealers are quoting spot supplies of foreign root in the region of 80s. per cwt., as to quantity.



**DERRIS ROOT.**—Market has remained quiet: spot, 1s. 3d. to 1s. 4d. per lb., as to ether extract; shipment, July-August, 10½d. to 10¾d.; per lb., c.i.f., basis 17 per cent. ether extract.

**DRAGONS BLOOD.**—The demand for reboiled, fair to good, quoted at £23 to £24 per cwt., is slow. Medium, £21 to £22 per cwt.

**ERGOT.**—Some small business on spot, with slightly wormy bold Russian at 4s. paid to 4s. 1½d. quoted. Offers from Hamburg of Russian at 4s. per lb., c.i.f. Spanish and Portuguese nominally unchanged at 6s. 9d. per lb., spot.

**GENTIAN.**—Dealers report the demand is sustained, with spot values ranging from 37s. 6d. to 40s. per cwt., as to quantity.

**GINGER.**—Market for West African has been dull: West African, spot, 61s.; for arrival, 56s. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 87s. 6d. to 90s.; small grinding, 62s. 6d. to 67s. 6d. per cwt., in bags, ex store.

**GUAIACUM.**—Continues to find a limited demand, with fair to good glossy sorts at 1s. 7d. to 1s. 8d. and good bright refined at 1s. 9d. per lb.

**GUM ACACIA.**—Although business has been none too good, there is a steadier tone at the advanced quotations on spot and forward: spot, Kordofan cleaned sorts, 42s. to 42s. 6d.; bleached, No. 1, 110s.; extra, 120s. per cwt.; shipment, Kordofan cleaned sorts, 39s. per cwt., c.i.f.

**HENBANE.**—Spot supplies are available in small parcels at about 80s. per cwt. Market quiet.

**HENNA.**—Dealers are offering good green Egyptian leaves at about 37s. 6d. and brown leaves at 30s. per cwt., in small parcels.

**HONEY.**—Rather quieter this week, quoted values steady: Jamaican, spot, 32s. to 42s. 6d. for dark liquid manufacturing to pale set. Haiti, 32s. 6d. to 40s. for dark to pale, duty paid. Mexican, 35s. per cwt., duty paid. Canadian, 42s. 6d. to 45s. per cwt. for pale to good.

**HYDRASTIS.**—Rather more inquiry, with prices fully steady: spot, 9s. 6d.; shipment, 9s. 3d. per lb., c.i.f.

**IODINE.**—The Convention price for crude continues at the recent reduction at 8s. per kilo., with usual rebates for bulk quantities.

**IPACACUANIA.**—Market has only done a few small spot orders: Matto Grosso, B.P. test, 5s. 6d. per lb.; shipment, 4s. 10d. per lb., c.i.f.

**LOBELIA HERB.**—The spot market is none too steady and the quotation of 7d. per lb. might be shaded for a quantity; shipment, August-September, 5½d. per lb., c.i.f.

**LYCOPodium.**—Very scarce on spot, with values tending to move up from 5s. to 5s. 6d. per lb.

**MENTHOL.**—Business on spot has been very restricted: K/S brands, spot, 13s. 3d.; in bond, 11s. 9d. Japanese shippers quoting July-August at 11s. 6d. to 11s. 9d., with re-sellers at about 11s. 6d., c.i.f. The October-December position is quoted at 10s. 10½d. per lb., c.i.f., with some business done.

**MERCURY.**—The Spanish-Italian group report their shipment quotation is unchanged at 62 dollars per bottle, f.o.b. Continent; spot, in small lots, £12 7s. to £12 7s. 6d. per bottle, ex store.

**MYRRH.**—Some parcels of fair Aden sorts quoted steadily at £6 10s. per cwt., ex store.

**OPUM.**—A very fair business on spot in small parcels: spot, 1s. 4d. to 1s. 4½d. per unit, landed and duty paid.

**ORRIS ROOT.**—A few small parcels of Florentine are quoted firmly up to 75s. per cwt. Business negligible.

**PEPPER.**—Market has been dull and forward quotations are fractionally easier: Lampong, in bond, 27½d.; shipment, June-July, 27½d.; August-October, 27½d., c.i.f. Tellicherry, spot, 4½d.; shipment, August-October, 35s. 6d., c.i.f. Aleppy, spot, 4½d.; shipment, August-October, 34s. 6d., c.i.f. White Muntok, in bond, 4½d.; shipment, June-July, 47½d.; August-October, 47½d. per lb., c.i.f.

**PIMENTO.**—Business has remained quiet: spot, 7d. per lb.; shipment, June-July, 62s. per cwt., c.i.f.

**QUASSIA CHIPS.**—A moderate inquiry is being received, with small parcels quoted up to 21s. per cwt.

**QUILLAI BARK.**—Dealers are offering spot supplies of crushed bark at about 35s. per cwt., in small parcels.

**RHUBARB.**—Only a few cases of poor selection of Shensi available on spot and quoted at 4s. 6d. to 4s. 9d. A parcel of Shensi pickings has just been landed and is offered at 3s. per lb. Rather more offers of rough round, high dried ordinary quality for shipment, the price being 1s. 1½d. per lb., c.i.f. On spot values steady at 1s. 5½d. to 1s. 6½d. per lb., as to quality.

**RUBBER.**—Price movements have been very small, with values closing level on the week, market quiet: standard ribbed smoked sheet, spot, 7½d.; July, 7½d.; August, 7½d.; September, 7½d.; October-December, 7½d.; January-March, 7½d.; April-June, 7½d. per lb.

**SAFFRON.**—Small business, values quoted unchanged: spot, B.P., 189s, prime, 43s.; extra, 40s. 6d.; super, 37s. 6d. per lb., and less for bulk quantities.

**SARSAPARILLA.**—Fair business, market steady as quoted: spot, Jamaican grey, 1s. 2d. to 1s. 3d.; native, mixed colours, 10d. to 11d. per lb., as to quantity, spot.

**SEEDS.**—ANISE.—Spot, duty paid, Spanish, 55s.; Bulgarian, 29s. 6d. CANARY.—Spanish, 40s. to 52s. 6d., spot, duty paid. New crop Mazagan for July-August shipment quoted at 21s. c.i.f. CARAWAY.—Dutch, on spot, 39s. 6d., duty paid. CORIANDER.—Morocco old crop, spot, 22s. 6d., duty paid. New crop, for July-August quoted at 12s. 9d., c.i.f. CUMIN.—Spot, Malta, 45s. 6d.; Morocco, 46s., duty paid. FENUGREEK.—Morocco, 14s., spot, duty paid. New crop for prompt shipment, 11s. 3d., c.i.f. MUSTARD.—English, 21s. to 32s. per cwt., according to quality.

**SENEGA.**—Not much business but values are keeping quite steady: spot, 1s. 5d.; shipment, 1s. 4½d. per lb., c.i.f.

**SENNA.**—Demand for Tinnevely leaves has been a little better, with spot supplies of good green getting more restricted. Ex wharf, London, prices as follows:—bold selected at 7½d.; No. 1 at 5½d.-6d.; No. 2 at 4d.-4½d.; No. 3 at 3d. per lb. for prime quality. Alexandrian, very few recent importations of choice bold greenish hand-picked pods, but No. 2 quality offers fairly freely on the spot at 1s. 6d. to 3s. per lb., according to quality.

**SHELLAC.**—Market has been rather quiet, values unchanged on the week: spot, standard TN orange, 53s. to 58s.; fine orange, 65s. to 135s.; pure button, 65s. to 70s. per cwt., spot. For delivery, TN, August, 54s.; October, 55s. For arrival, TN, June-July, 50s. per cwt., c.i.f.

**SLIPPERY ELM BARK.**—Occasional business in small parcels: five-pound wired bundles, 1s. 2d. per lb.; grinding grades, about 7½d. per lb.

**SQUILL.**—One or two small lots of fair white are reported available on spot at about 55s. per cwt.

**STRAMONIUM.**—Some parcels of good green leaves are available at about 45s. per cwt., in small lots.

**TONKA BEANS.**—Not much inquiry on spot, with fair frosted Para beans very steady at 4s. 3d. New crop, for shipment, 2s. 9d. to 2s. 10d. per lb., c.i.f.

**TRAGACANTH.**—Conditions in this market continue firm, with supplies of the white grades still well below normal and restricted in selection. Shipment difficulties are likely to make arrivals short for some time. Medium white grades, £18 to £25 and white ribbon is firm at £31 per cwt. Fair inquiry continues for the textile grades, which are quoted from £5 per cwt. upwards.

**VALERIAN ROOT.**—The spot value is about steady at 37s. 6d. per cwt. for small parcels.

**WAX.**—Moderate inquiry this week; quoted values are about steady: Calcutta, bleached, spot, 135s.; afloat, 130s.; shipment, 122s. 6d., c.i.f. Abyssinian, spot, 120s.; in bond, 108s.; shipment, 106s., c.i.f. Benguella, spot, 120s.; shipment, 106s., c.i.f. Conakry, spot, 106s.; shipment, 107s. per cwt., c.i.f. Dar-es-Salaam, spot, 120s.; shipment, 117s. per cwt., c.i.f. CARNAUBA.—Rather dull on spot; the better tone in the shipment market is maintained. Fatty grey, spot, 160s.; afloat, 152s. 6d.; shipment, June-July, 147s. 6d., c.i.f. Chalky grey, spot, 160s.; shipment, June-July, 150s., c.i.f. Primeira, spot, good quality, 212s. 6d.; afloat, 205s.; shipment, June-July, 196s., c.i.f. Mediana, spot, 205s.; shipment, 192s. 6d. per cwt., c.i.f.

### Essential Oils, etc.

RAATHER quiet markets are reported. Anise (Star) is dull. Bergamot and Sicilian lemon are neglected. Java citronella reported in demand for shipment. Lemongrass remains dull. French Guinea orange again dearer and very firm. Japanese peppermint quite steady and in fair demand on spot.

**ALMOND.**—Fair business in small parcels: English-made, cwt. lots, 2s. 2½d.; smaller parcels, up to 2s. 6d. per lb.; foreign, cwt. lots, 2s. 3½d.; smaller parcels, up to 2s. 7d. per lb. French, bitter, 6s. 3d. per lb.

**ANISE (STAR).**—Not very much business moving. Shipment quotations not attracting orders: spot, leads, 2s. 6d.; tins, 2s. 4d.; drums, nominal, per lb., ex store; shipment, tins, 2s.; drums, 1s. 10½d. per lb., c.i.f.

**BAY.**—Dealers report some small business: 49 to 50 per cent., 4s. 7d. to 4s. 9d.; 50 to 68 per cent., 4s. 10d. to 5s. per lb., as to quantity.

**BERGAMOT.**—There has been very little business done this week, and offers seem to be rather easier, with some holders anxious to unload now that there is a fair hope of the removal of Sanctions about the end of the month. Offers are over the wide range of 8s. 3d. to 10s. 6d. per lb., as to brand, quantity and seller.

**BOIS DE ROSE.**—Occasional business of modest size: spot, Brazilian, 5s. to 5s. 3d.; shipment, about 4s. 10d. per lb., c.i.f.

**CAJUPUT.**—Some small spot business: B.P., 1s. 9d. to 2s. 1d. per lb., as to quantity.

**CANANGA.**—This market continues unsteady and dull: shipment is not more than 7s. 4½d., with spot in the region of 8s. 4½d. to 8s. 6d. per lb.

**CARAWAY.**—Values quoted are unchanged, market quiet: Dutch rectified, 9s. to 9s. 1½d.; crude, 8s. 6d. to 8s. 9d. per lb., landed and duty paid.

**CASSIA.**—The regular volume of business is lacking in this market: shipment offers at about 2s. 6d., c.i.f., drums, and spot prices 3s. 2d. to 3s. 3d. per lb., as to quantity.

**CEDARWOOD.**—The African oil continues to be quoted keenly on spot at about 1s. for drums and up to 1s. 4d. for small parcels. American, spot, drums, 1s. 1½d.; smaller parcels, up to 1s. 4½d. per lb.

**CINNAMON LEAF.**—The market has been dull, but is fully steady: Ceylon oil, spot, drums, 2s. 11d.; smaller parcels, up to 3s. 2d.; shipment, 2s. 9½d. per lb., c.i.f.

**CITRONELLA.**—Business in the Ceylon oil has been very moderate on this market. Some important business in Java for shipment reported, with Dutch currency used with the price about .82 Dutch florins per kilo., c.i.f.; Ceylon, spot, drums, 1s. to 1s. 1d.; smaller parcels, up to 1s. 4½d.; shipment, drums, 8½d. per lb., c.i.f. Java, spot, drums, about 1s. 3d.; smaller parcels, 1s. 4d. to 1s. 7d.; shipment, drums, 1s. 0½d. per lb., c.i.f.

**CLOVE.**—Spot market steady. Very few offers of Madagascar for shipment: Madagascar, spot, drums, 3s. 2½d. to 3s. 4d.; smaller packings, up to 3s. 8d. per lb.; shipment, about 2s. 7d. per lb., c.i.f.

**EUCALYPTUS.**—Market continues very firm, with spot values tending to advance: Australian, 70 to 75 per cent., 1s. 2d. to 1s. 2½d.; 80 to 85 per cent., 1s. 3d. to 1s. 3½d. per lb., landed; higher prices for small lots on spot. Spanish, 70 to 75 per cent., 1s. 3½d. per lb., ex store.

**GERANIUM.**—Business has remained quiet: Bourbon, spot, 21s. to 21s. 6d.; shipment, 19s. 9d., c.i.f.; Algerian, spot, 21s. to 22s.; shipment, 20s. per lb., c.i.f.

**GRAPE-FRUIT.**—Dealers quote spot parcels of hand-pressed from about 15s. to 16s. per lb.

**HO (SHU).**—A fair business is reported, with prices rather steadier: spot, from 1s. 6½d. to 2s. 1½d. per lb., as to quality and quantity.

**LEMON.**—Business on spot seems to have been negligible this week. Spot stocks are not heavy, excluding stocks that may be unloaded by overstocked consumers, and values quoted now range from slightly under 8s. up to 9s. 6d. per lb., as to brand, quantity and seller. Californian is fully steady and meets with a modest sale. Cold pressed, 4s. 2d.; distilled, regular quality, small drums, 3s. 4d.; large drums, 3s. 3½d. per lb., with supplies available small and the outlook not at all favourable.

**LEMONGRASS.**—Interest in the cheap shipment offers is still small with prices remaining at 1s. 6d., c.i.f. On spot the figure for small parcels would be about 2s. to 2s. 3d. per lb.

**MANDARIN.**—In extremely small supply with small lots quoted firm up to 32s. per lb.

**ORANGE.**—The Sicilian oil continues nominal on spot but the raising of Sanctions at about the end of the month seems very probable. There has been a fair amount of routine business in French Guinea oil with up to 3s. 4½d. reported paid for drums and most holders now asking up to 3s. 6d. and even higher. The shipment market is also firmer at 3s. 2d. per lb., c.i.f., with extremely few firm offers being made. Californian oil is steady: spot, one case, 3s. 4½d.; two or more cases, 3s. 2d.; small drums, 3s. 1d. per lb.

**PALMAROSA.**—There has been a marked lack of business for this oil. Spot, about 6s.; shipment, 5s. 6d. to 5s. 9d. per lb., c.i.f.

**PATCHOULI.**—We have noted one or two offers of Singapore oil at very low rates, but the quantity available was negligible and consisted of repacked oil. For original packages 16s. is wanted on spot. Some Seychelles oil is available here at about 12s. to 12s. 3d. per lb.

**PEPPERMINT.**—A nice business continues on spot with up to 5s. 11d. and 6s. having to be paid. Substantial orders at less have been refused. Japanese shippers quoting July-August at 5s. 10½d. to 6s., c.i.f., with re-sellers at level figures. Speculative business in October-December has been quiet with buyers at 4s. 10½d. and sellers at 5s. per lb., c.i.f. American natural oil barely steady and business on this market remains quiet; quoted for shipment at about 2 dollars for 50 per cent. menthol content and about 1 dollar 90 cents per lb., c.i.f., for about 46 per cent. menthol.

**PETITGRAIN.**—Some small spot business. Spot, 3s. 9d. for cases up to 4s. for smaller packings; shipment, about 3s. 4d. per lb., c.i.f.

**ROSEMARY.**—Limited inquiry on the market: Spanish, good quality oil, about 2s. 3d. per lb., with some offers well under this figure.

**SANDALWOOD.**—Genuine East Indian Mysore, 19s. per lb., in one-case lots on spot; practically no second-hand offerings. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, cwt. lots, 5s. 10½d.; 56 lb., 6s. 1½d.; 14 lb., 6s. 4½d. per lb. Australian oil continues steady at the recent reduction: 5 cases, 14s. 6d.; one case, 14s. 9d.; 7-lb. tins, 15s. 3d. per lb.

**SASSAFRAS.**—A little more inquiry reported. Natural oil quoted from 3s. 7d. to 3s. 9d. per lb., as to quantity. Artificial oil at cheaper prices.

## London Drug Stocks

LONDON stocks at May 31, 1936, and May 31, 1935:—

Article	Quantity	May 31, 1936	May 31, 1935
Aloes ...	cwt.	234	72
Cascara Sagrada ...	tons	45	132
Bees' Wax ...	packages	2,935	976
Japanese Vegetable Wax ...	cases	369	176
Camphor ...	packages	394	565
Cardamoms ...	cwt.	329	876
Dragon's Blood ...	cases	179	110
Galls, China and Japan ...	cases	638	598
Gum Acacia ...	packages	12,511	6,183
Asafoetida ...	cwt.	416	317
Benzoin ...	cwt.	957	642
Olibanum ...	packages	253	328
Tragacanth ...	packages	6,261	5,560
Ipecacuanha ...	cwt.	292	49
Nux Vomica ...	cwt.	529	625
Rhubarb ...	cwt.	195	325
Senna ...	bales	4,125	4,790
Shellac ...	cases	128,141	276,369
Turmeric, Bengal ...	tons	73	5
Turmeric, Madras, Cochin, etc.	tons	165	133
Sandarac ...	packages	219	78
Mastic ...	packages	47	9
Guaiacum ...	cwt.	150	158
Ammoniacum ...	packages	31	13

## Sudan Gum Acacia Exports

BOXALL & Co. report shipments during April amounted to 2,071 tons, compared with 2,196 tons shipped in April, 1935. Shipments for January-April, 1936, totalled 8,761 tons, compared with 7,270 tons in the corresponding period of 1935. The chief destinations were as follows:—

Destination	1935			1936		
	Jan./Mar.	April	Total	Jan./Mar.	April	Total
Great Britain ...	872	547	1,419	1,542	491	2,033
U.S.A. ...	955	521	1,476	1,002	226	1,228
France ...	419	286	705	1,466	451	1,917
Germany ...	452	186	632	759	277	1,036
Italy ...	427	88	515	4	10	14
Belgium ...	395	119	514	375	105	480
Japan ...	631	171	802	389	22	411
Holland ...	170	60	230	259	122	381
Spain ...	93	28	121	67	29	96
Sweden ...	99	37	136	126	49	175
Australia ...	214	28	242	143	79	222
New Zealand ...	21	5	26	15	5	20
China ...	52	21	73	99	12	111
Canada ...	27	5	32	48	55	103
Denmark ...	17	10	27	60	6	66
Finland ...	45	3	48	24	23	47
Rumania ...	—	7	7	22	15	37
Greece ...	20	—	20	29	10	39
Egypt ...	35	8	43	31	8	39
Argentina ...	51	5	56	29	—	29
Brazil ...	6	12	18	39	24	63
Other countries ...	20	21	41	61	17	78

## World's Vanilla Crop

H. MAYER SENIOR, LTD., London, have sent us the following figures of the world's vanilla crop for the 1935-36 season:—

	Tons
Madagascar ...	305
Comoro ...	90
Nossi-be ...	12
Reunion ...	35
Mexico ...	70
Tahiti ...	60
Java ...	22
Guadeloupe and Martinique ...	6
Ceylon and Seychelles ...	5

605

This crop arrived upon the European markets between October 1935, and May 1936, and the above total of 605 tons is within 2 per cent. of the firm's estimate published in our issue of May 25, 1935. Owing to the limited production, values during the period under review never fell below those of the preceding year, and towards the end of 1935 took an upward turn which reached its peak in March last. A slightly easier condition has ruled during the last two months, this, however, in the opinion of close observers, is inclined to be of only temporary duration.



## Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

### An Example in England

SIR,—I am amazed that your contributor "Protestor" should feel, on the evidence he gives, that the Scottish Pharmaceutical Federation sets an example to English organisations. First of all, may I say that the Scottish Pharmaceutical Federation generally follows the example of the National Pharmaceutical Union and has not, to my knowledge, initiated any new movement of any kind? Regarding the special examples of action taken, these are everyday occurrences with the N. P. U. . . . If "Protestor" read our monthly reports consistently, he would know that the N.P.U. not only writes to Government departments but talks to them also, giving them chemists' opinion. I am afraid the N.P.U. has the Englishman's failing of not boasting enough about what it does for its members; but thousands of chemists in England and Wales could give from personal proof that there is more real fighting work being done by the N.P.U. than by any other organisation in pharmacy, whether north or south of the Tweed.—Yours faithfully,

H. GILLEGHAN.

Leeds.

### Chemists' Friends Scheme

SIR,—During the coming months—when branch meetings are mostly suspended—there is a possibility that the enthusiasm for the C.F. scheme may wane. In the opinion of the Wembley and District Chemists' Association this would be disastrous to the success of the movement. It is imperative that an inflexible adhesion of all branch executives, and of each individual chemist, to the principle of the original scheme should be stimulated and intensified in the determination to do the utmost to see the scheme brought to a successful issue. The Wembley and District Chemists' Association earnestly appeal to all branch executives and every individual who is supporting the scheme to approach the chemists in their own area who are keeping aloof, and those who may be interested but are hesitant, with the necessary propaganda, which will go a long way to bring about solidarity of united effort and to ensure a successful issue for the particular conditions for which we are fighting and which we claim are logical and just.

Yours faithfully,

MAURICE JONES,  
Corresponding Secretary.

Wembley Park.

### Physiology and Pharmacy

SIR,—My reply to Dr. Shiel and to "Inextinct" is to reassert that dispensing is destined not merely to dwindle but to disappear. I never supposed that "Inextinct" was already extinct. Standardisation of remedies has come to stay. Medicine is not an exact science. If it were, there would doubtless be an exact prescription and an accurately calculated dosage for every individual patient. But who knows whether in any actual case the right dose of, say, tinct. belladonnæ is five minims or six? An approximation is all that can be hoped for, and standardisation is the logical sequel. The N.H.I. formularies, no less than the wide range of proprietary remedies of which doctors are nowadays so fond, are an acceptance of the principle of standardisation. This acceptance—now all but universal—spells the logical end of pharmacy as a separate job. Inertia or conservatism may guarantee continued existence for a time—but we are as surely doomed to extinction as the sailing ship, or the stage coach, or the flat earth theory. They survive as occasional curiosities, and in no other way can pharmacy survive. A moment's thought will convince anyone of the impossibility of separating dispensing and prescribing by any statutory means. On the one hand (to be brief), how could we prohibit a doctor from giving his patient a medicine or a dressing or an appliance? He could always plead urgency. On the other hand, any member of the public, whether a pharmacist or not, is at liberty to recommend a remedy or a course of treatment—and that is prescribing. How could we make that illegal? We are restricted on all sides—by competition with the unqualified and with the multiple stores, by

new Acts of Parliament, by a hierarchy of inspectorship, by diminishing profits and by the loss of jobs for which we were presumably trained; and at the end of it all we are denied the dubious benefits of survival.—Yours truly,

R. CECIL OWEN.

Chester.

## Poisons Queries

Subscribers are asked before sending us inquiries to consult the C. & D. "Poisons Guide," also the following articles which have appeared in the C. & D.: How to Supply Poisons (January 18, p. 69); Labelling of Poisons (March 7, pp. 284, 285); Wholesale Dealing in Poisons (April 25, p. 493).

H. E. (4/65).—A written prescription for a restricted drug with only the signature and the date in the prescriber's own handwriting is quite in order, as Rule 12 (2) (a) only requires this to "be signed by the person giving it with his usual signature and be dated by him." It is assumed that all the other requirements are complied with.

F. M. M. (5/62).—A prescription for a restricted drug (e.g., barbitone) should be copied into the prescription-book in the ordinary way. There is nothing in the Act and Rules to prevent a separate prescription-book being used. The prescription (or a dated copy thereof) issued in connexion with a local health service has to be kept for two years in accordance with Rule 8 (2).

P. P. P. (5/64).—It is an advantage for a listed seller to nominate two deputies especially for a branch business where he is not personally in attendance. The sale of First Schedule poisons in Part II of the Poisons List must be conducted by the listed seller or his deputy. An employee may sell Part II poisons which are not within the First Schedule, provided they are properly packed and labelled (see Rule 14).

W. H. (10/68).—Lettering on bottles, such as "poisonous—not to be taken," is not contrary to the labelling provisions of the new poisons law. For the sake of conformity it is advisable to change this to "Poison. Not to be taken," as the word "poisonous" is now obsolete. The lettering is an additional safeguard with liquid chemicals (such as poisonous disinfectants), but does not relieve the seller from making certain that the required words are also on the label.

H. M. (8/63).—The patient's address on a D.D. or restricted drug prescription should be sufficient for the dispenser to identify the same (as, for example, in enabling delivery of the medicine). The name of the village would scarcely suffice. The name of street and number of house is advisable even when a customer is known, as it is possible there has been a change of address permanently or temporarily. The full postal address is only necessary when this is the same as the ordinary address.

H. M. W. (9/67).—If a medicine made up ready for internal use is supplied under Section 18 (with a label bearing the name and proportion of poison) then the container must also bear the Schedule 7 (2) cautionary notice if it is an unscheduled poison not coming within Schedule 7 (1). It is in order to supply Easton's syrup in this way, the dose being preferably included on the label. A "phenol mixture" for internal use must also be labelled with "Caution. It is dangerous to exceed the stated dose," as the word "poison" should be avoided unless the medicine is for external use.

E. T. H. (3/63).—While it is true that D.D. Regulation 11 (1) (g) allows the D.D. Register to be used as a Poisons Register for the purposes of Section 17 of the Pharmacy Act, 1868, there is an objection to assuming that the same concession applies in the new poisons law. Rule 32 requires the entry in the Poisons Register to be in the form set out in the Twelfth Schedule to the Poisons Rules, and the D.D. register does not fulfil this requirement. The use of the D.D. register to save duplication of entry (as on a signed order) would be useful, but again the "signed order" provisions in the Dangerous Drugs and Poisons Amendment Act, 1923, have been repealed and replaced by Rule 7. Thus the only provisions now in force in relation to a "signed order" are those in the P.P. Act and Rules, which require suitable reference thereto in the appropriate column in the Poisons Register (which column is absent in the D.D. register).

## Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

*C. & H.* (4/65).—MINERAL POWDER FOR PIGS.—Such preparations generally contain salt, bone flour, sulphur, lime and potassium iodide. A representative formula for such preparations is as follows:—

Salt	...	...	...	...	...	10 lb.
Finely-ground limestone	...	...	...	...	...	45 lb.
Bone flour	...	...	...	...	...	40 lb.
Sulphur	...	...	...	...	...	5 lb.
Potassium iodide	...	...	...	...	...	2 oz.

Mix 2 lb. with each cwt. of concentrates fed. A number of recipes for mineral mixtures for cattle feeding are given in "Pharmaceutical Formulas," Volume II.

*G. M.* (12/64).—APPRENTICE'S HALF-HOLIDAY.—The master cannot insist on the apprentice attending business on the evening of the weekly early closing day. The apprentice is entitled to a full half-day, which is usually from 1 p.m. The apprentice is not at liberty to choose which half-day he likes.

*J. H. W.* (12/55).—JOINT-ILL REMEDY.—The preparation for joint-ill in foals appears to be of similar composition to the following:—

Solution of iodine	...	...	...	5j.
Iodoform	...	...	...	gr. x.
Glycerin	...	...	...	5j.
Water	...	...	to	5j.

*G. M. E.* (3/66).—*SYRUP. FERRI PHOSP. CO.*—The following notes, which were submitted by one of our subscribers some time ago, will enable you to overcome your difficulty:—A solution of cochineal should be made by boiling powdered cochineal with distilled water, and filtering hot, the cochineal being again boiled with more distilled water for from three to five minutes, and filtered hot, thus extracting the maximum amount of colour. To allow the solution to cool before filtering makes filtration very slow, and if a hard alkaline tap water is used filtration will stop, owing to the deposition of a black insoluble colour that only dissolves on adding a trace of phosphoric acid, which changes the colour to red and starts filtration again. The same cause, but to a much less degree, hinders the filtration of a distilled water solution that has been cooled. Should the filtrate deposit before it is used, the deposit will dissolve when boiled with the sugar. The cooling is necessary in the case of the *syrupus cocci*, as on no account should the iron solution be added to it until it is absolutely cold. The *syrupus cocci* should be made to a definite volume or weight, i.e., of the strength of *syrupus*, B.P., and thus more than 350 mils of the cochineal solution may be used, as water is lost by evaporation. If the *syrupus cocci* is carefully skimmed and the process completed when cold, the *Parrish's* syrup is finished and filtration is not necessary. In fact, filtration should be avoided. Straining through muslin will collect any fibres that may have escaped removal in the skimming.

*G. D. J.* (5/65).—HEIGHT AND WEIGHT.—The following table gives the average heights and weights of children:—

			Males		Females	
Age last birthday			Height ft. in.	Weight st. lb.	Height ft. in.	Weight st. lb.
I	...	...	2 5 $\frac{1}{2}$	1 4 $\frac{1}{2}$	2 3 $\frac{1}{2}$	1 4
2	...	...	2 8 $\frac{1}{2}$	2 4 $\frac{1}{2}$	2 7	1 11 $\frac{1}{4}$
3	...	...	2 II	2 6	2 10	2 3 $\frac{3}{4}$
4	...	...	3 I	2 9	3 0	2 8
5	...	...	3 4	2 12	3 3	2 II
6	...	...	3 7	3 2 $\frac{1}{2}$	3 6	2 13 $\frac{3}{4}$
7	...	...	3 10	3 7 $\frac{1}{4}$	3 8	3 5 $\frac{1}{2}$
8	...	...	3 II	3 13	3 10 $\frac{1}{2}$	3 10
9	...	...	4 1 $\frac{1}{4}$	4 4 $\frac{1}{2}$	4 0 $\frac{1}{2}$	3 13 $\frac{1}{2}$
10	...	...	4 3 $\frac{1}{2}$	4 11 $\frac{1}{2}$	4 3	4 6
11	...	...	4 5 $\frac{1}{2}$	5 2	4 5	4 12
12	...	...	4 7	5 6 $\frac{3}{4}$	4 7 $\frac{1}{2}$	5 6 $\frac{1}{2}$
13	...	...	4 9	5 12 $\frac{1}{2}$	4 9 $\frac{1}{2}$	6 3

*T. C. C.* (4/64).—SOLUBILITY OF EPHEDRINE.—Ephedrine hydrochloride is soluble in water one in five, and the sulphate is soluble in water one in two. For application to the mucous membrane, aqueous solutions, from one to five per cent., are employed as sprays.

*C. E. W.* (4/66).—DESTRUCTION OF ALGÆ.—The algæ on the fishpond can be destroyed by means of copper sulphate, one part per million. This is stated not to be harmful to the fish. The easiest way of adding this is to put the crystals in a sack and draw them through the water until dissolved.

*D. W.* (3/64).—APPLICATION FOR USE AFTER DISHORNING.—The dressing for application after dishorning the cattle should keep flies away, besides being antiseptic and sealing the cut part. An aqueous solution does not remain efficient long enough; a tar preparation such as one of the following is most suitable:—

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Iodoform...	...	...	Huile de Cade ...	...	...
Tinct. benz. co.	...	...	Cera flav.	...	...
			Ol. olivæ	...	...
II			IV		
Aloes ...	...	...	Iodine ...	...	...
Liq. picis carb.	...	...	Light oil of wood tar	...	...

A. J. B. (Switzerland) (3/54).—DISTEMPER CURE FOR DOGS.  
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Tinct. calumb.	...	...	...	...	...	5iij.
Syr. tolut.	...	...	...	...	...	5ss.
Aq.	...	...	...	...	ad	5iij.

5j. vel 5ij. t.d.s. (according to weight of dog).

II				
Tinct. cinch. co.	...	...	...	5iij.
Sp. ammon. arom.	...	...	...	5ij.
Glycerin ...	...	...	...	5iij.
Aq. cinnamon	...	...	ad	5iij.

3j. vel 3ij. t.d.s.

*O. S. C.* (25/55).—IMPORTED PROPRIETARY MEDICINES.—For all practical purposes, imported proprietary medicines are treated in the same way as those manufactured in this country. A full declaration of the formula, together with the words: "No proprietary rights are claimed in the preparation of this medicine," must appear on all labels and cartons if any, in which case such medicines are saleable by registered pharmacists including company chemists and the few other persons who are authorised by the Board of Customs and Excise.

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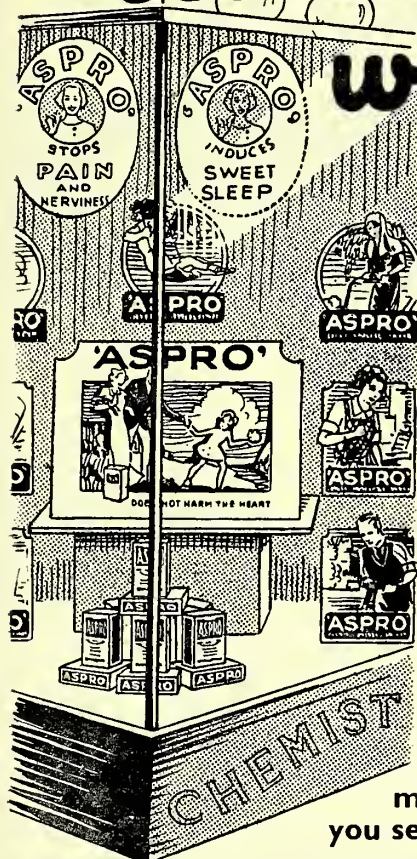
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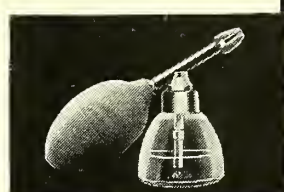


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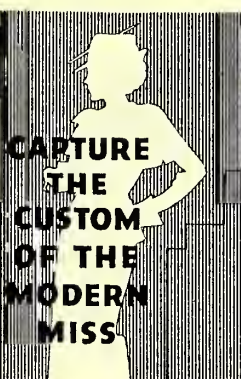
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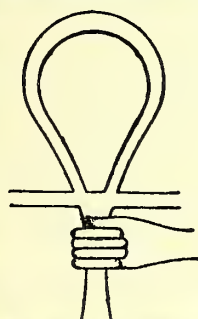
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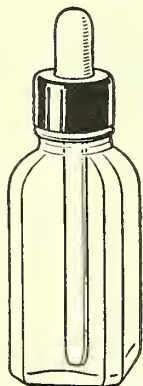
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JUNE 20,  
• 1936 •



## Important Notice!

NEXT WEEK IS THE

## ANNUAL SPECIAL ISSUE

therefore "THE CHEMIST AND DRUGGIST" SUPPLEMENT will be put to press a day earlier than usual. Accordingly any advertisements intended for the Supplement of

**JUNE 27th** should reach this Office not later than **10 A.M. on WEDNESDAY, JUNE 24th**

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- 2.—LONDON, S.W.1.—Old-established Business in main road; returns last year £1,648 with gross profit £581; attractive shop well fitted and stocked; long Lease; reasonable rent; stock and fixtures worth about £900; open to offer.
- 3.—KENT.—Business and Branch returning approximately £1,300 and £1,000 respectively; audited accounts; main road positions; low rents; Leases; can be bought together or separately; total price about £1,000 all at.
- 4.—WESTERN SUBURB.—Main-road Cash Retail Business; well-established; returns present rate £18-20 weekly; gross profit 35 per cent.; double-fronted shop; mahogany fixtures; stock worth nearly £400; price £500 all at.
- 5.—LONDON, N.W.1.—Old-established Business offering scope for increase; returns last year £1,393 with gross profit £550; modern fixtures; good clean stock; rent £100 per annum; price £850.
- 6.—WEST WIMBLEDON (NEAR).—Middle-class Family Retail Business for sale owing to ill-health; returns between £1,200 and £1,300 per annum; average net profit £350; six-roomed house with bathroom; new Lease at £70 per annum; price about £800.
- 7.—LEE GREEN (NEAR).—Middle-class Retail Business; increasing turnover, present rate between £1,100 and £1,200; scope for Optics; house recently completely redecorated; long Lease; stock and fixtures worth about £500; price £675 all at or near offer.
- 8.—MIDDLESEX.—Well-established Business with increasing turnover; returns for year ended March 31st, 1936, £1,483; gross profit £525; Accountant's figures; good stock worth about £450; attractive premises with living accommodation and small garden; new Lease will be granted at reasonable rent; price asked £1,100 all at or £300 for Lease and Goodwill, plus stock and fixtures at valuation.
- 9.—EALING (NEAR).—Middle-class Cash Drug Store; very old-established; present rate of turnover between £20 and £22 weekly; five-roomed house with bathroom; long Lease; reasonable rent; price £550 all at.
- 10.—HERTFORDSHIRE (DEATH VACANCY).—General Retail Business neglected owing to ill-health; returns last year £879 with gross profit £454; Accountant's figures; double-fronted shop well situated in shopping thoroughfare; nice living accommodation; private entrance; bathroom, etc.; held on Lease; stock and fixtures worth about £450; no reasonable offer refused.
- 11.—BOURNEMOUTH.—Old-established High-class Retail and Dispensing Business; commodious main-road premises; returns last year exceeded £2,000 with gross profit approaching £950; Accountant's figures; stock worth about £1,150; scope for increase; held on Lease; price asked £1,500 all at.
- 12.—BATH (WITHIN EASY REACH OF).—Medium-class Business; returns between £24 and £25 weekly; good prices; stock and fixtures worth about £575; price £625.
- 13.—LEEDS.—General Retail Business with side line; net profit last year £500-£550; double-fronted shop very well fitted and stocked; rent £72 per annum; price asked £1,150 all at, or near offer, or valuation terms entertained.
- 14.—RAMSGATE (NEAR).—Unopposed Cash Retail Business offering scope for increase; returns last year £1,195 with gross profit £450 and net profit £375; premises may be purchased or a Lease will be granted at £78 per annum; price asked £950 all at; healthy locality.
- 15.—BEDFORDSHIRE.—Old-established Medium-class Business; present taking average £20 per week; neglected through illness but now showing steady increase; stock worth between £200 and £300; fixtures £130; two flats; rent £60 per annum; sublet 11s. weekly; growing district; valuation terms entertained; Vendor retiring.
- 16.—SOUTHAMPTON.—Middle-class Business; present returns between £17 and £18 weekly; gross profit about 38 per cent.; stock and fixtures worth about £400; rent £72 per annum; terms, valuation of stock and fixtures only or £400 all at.
- 17.—SOUTH WALES.—Dispensing Business with full Off-Licence; returns 1935, £2,154; net profit £409; house; rent £78 per annum; option to purchase property; price of business £1,000 all at.
- 18.—BORDERS OF WORCESTER AND HEREFORD.—Very old-established High-class Business; Vendor retiring; returns approximately £4,500 per annum with net profit about £900 per annum; further details to prospective purchasers with approximately £4,250 at command.
- 19.—BIRMINGHAM (NEAR).—Light Retail and Dispensing Business; present returns £15 weekly; gross profit 37½ per cent.; rent £40 per annum; held on Lease; double-fronted shop in good position; stock and fixtures worth about £550; price £650 all at or £100 for Goodwill, plus stock and fixtures at valuation.
- 20.—HAMPTON HILL (NEAR).—General Retail and Dispensing Business; returns last year £1,565 with gross profit £595; Accountant's figures; modern shop; good living accommodation; held on Lease; reasonable rent; stock worth between £300 and £400; lump sum offers considered or valuation terms entertained.

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(C4) KINGSTON-ON-THAMES (NEAR).—Main road Pharmacy with living accommodation, situated in growing district; average turnover approximately £1,000 per annum; rent £65; business easily worked; price £500 all-at, or reasonable offer.

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(C10) ACTON.—Old-established business situated in thickly populated area; large N.H.I.; present returns approximately £2,000 p.a.; net profit about £500; price all-at £1,500 or reasonably near offer.

(C11) DERBY.—Pharmacy with no near opposition, situated in populous working-class district; turnover for last financial year, £1,222; net profit £340; good N.H.I.; net rent and rates less than 25s. per week; price £600, part of which might, if necessary, remain.

(C12) EDGWARE ROAD (NEAR).—Lock-up Pharmacy with steadily increasing turnover; returns for last year, £1,364; rent and rates approximately 22/- per week only; reasonable purchase price, part of which might remain under approved circumstances.

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(C15) WALTHAM CROSS (NEAR).—Main road middle-class business, with steadily increasing turnover; certified returns for last trading period, £1,580, but this year's figures are expected to show a good increase; low rental, which includes five-roomed house; price £700 all-at; genuine reason for selling.

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**STAFFS**.—Unopposed Village Business; turnover 1935, £1,300; low rent and rates; house and garden attached; genuine opportunity for young Qualified; price wanted for business £650. 12/7, Office of this Paper.

**PORTSMOUTH**.—Well-established Retail and Dispensing Business; turnover about £1,500, auditor's account given, could be greatly increased under management; corner position, main road; business and premises freehold, all at £3,000. 18/7, Office of this Paper.

**SUSSEX**.—Attractive modern Pharmacy in main thoroughfare of fashionable seaside resort; at present under management; definite scope for development under owner-proprietorship; good opening for Optics; illness cause of disposal; genuine buyers only. 11/18, Office of this Paper.

**CHEMIST AND OPTICIAN'S BUSINESS, FELTHAM**.—Freehold of shop and house included; price £2,200, including stock. Full particulars "R. K.," c/o Horncastles, 103 Cheapside, E.C.2.

**DRUG Store**, old-established, for Sale, Yorkshire market town; lock-up shop; rent £43; recently refitted; price for fixtures and lease £120, stock optional; owner has other interests. "Chemist," 21 St. Oswald Avenue, Pontefract, Yorks.

**GENUINE BARGAIN**.—Light Retail Branch Business; returns under management over £1,200 per annum for past three years (increasing 1936); lock-up shop, well-fitted with mahogany; rent 20s. per week; investigation invited; vendor, who is retiring, will grant lease; accounts fully audited; price; goodwill £150; stock and fixtures at valuation. A. E. Farrow, Sandling, Maidstone.

**GRAND Opportunity** for young progressive Chemist with small capital; £400 secures handsome, beautifully fitted Drug Store; well established; in good-class main road, London, S.W.; double front, with Ladies' Hairdressing Saloon at rear; could be let off to pay rent; price is inclusive figure; stock, fittings and long lease. 14/4, Office of this Paper.

**OLD-ESTABLISHED Business** for Sale, lock-up; good fittings, £100, stock about £560, rent £100, rates £36; turnover over £1,000 last 3 years; good opening for N.H.I. and Photography; owner giving up; several own specialties; all in £750. 282/259, Office of this Paper.

**RETIRING** from Pharmacy, medium-class on Teesside; Wine Licence, Kodak Agency; excellent D. and P. connection and well-equipped electric dark-room, able to do trade work; returns £1,250; N.H.I. 6,000 per annum; large lock-up shop, with rooms, no living accommodation; rent £65, rates £30. 10/55, Office of this Paper.

**SALE**, small modern factory, Cardiff district, equipped steam, gas, electricity; ground for expansion; low overheads; £2,000; or equipped with necessary plant and excellent nucleus connection amongst Chemists and Doctors, with proprietaries and general products, from North to South England, and capable of great expansion; £3,000; ill-health reason for selling. 17/40, Office of this Paper.

**SMART**, compact, well-fitted and stocked Drug Stores in busy main road, S.E. London; sales give good profits; rent and rates £36; bargain; offered at £180. "Veritable," 213 Westbourne Grove, W.11.

## PREMISES FOR SALE.

**DOUBLE-FRONTED Freehold Main-road Corner Business Premises** in busy centre to be Sold or Let on Lease; suitable for Doctors or Chemist; 5 rooms, kitchenette, bathroom. Apply Mr. C. W. Harknett, 82 Chingford Mount Road, South Chingford, E.4.

## PREMISES TO LET.

**HENLEY-ON-THAMES (Bell Street)**.—Excellent Shop and Upper Part, particularly suitable for Chemist; frontage 22 ft. to 24 ft., ample depth; rent £125 p.a. Apply Hillier, Parker, May & Rowden, 27 Maddox Street, W.1. Tele.: Mayfair 7666.

**CHEMIST**.—Attractive corner; low rent; suitable branch, or Young Dispenser; 1,000 new residents coming. McMahons Corner, Smeaton Road, Woodford Bridge (bus 10).

**MULTIPLE POSITION**.—Live Traders wanted for unique New Parade of Shops; 50 ft. deep; to Let; separate entrances to upper parts; view 123-129 Essex Road, N.1; thousands of shoppers here. Apply "T.," 48 Menelik Road, N.W.2.

**OPENING FOR CHEMIST IN GROWING TOWN**.—Good Modern Lock-up Shop in shopping centre, at rent rising from £55 p.a.; district supports 3 doctors, but only one Chemist. Particulars from Strangways Dixon, F.A.I., Harlow, Essex.



## PREMISES.



**GOING FAST . . .**

**hurry!**

**EXCELLENT  
SHOPS**

**IN RAPIDLY  
GROWING  
TRADING CENTRES**

**ON LEASE OR  
FREEHOLD**

(Shop fronts included to reasonable choice)

Each complete with self-contained modern flats of comfortable size.

Reasonable Trade Restrictions.

Apply for full particulars to: **MORRELL (BUILDERS) LTD.**

"Terminol House," Desk C.2  
52 Grosvenor Gardens, S.W.1  
Phone Sloane 7176.

## AGENCIES.

**S**OUTH African Chemist returning shortly would like to get in touch with Manufacturers and Agents with a view to introducing their lines on the South African market. Reply to B. Barron, 34 Gertrude Street, Chelsea, S.W.10.

**L**EADING Firm, Irish Free State, open for Sole Agencies for special Chemical or Pharmaceutical Lines; good Show Windows and Travellers. 8/1, Office of this Paper.

## PARTNERSHIPS.

**W**ONDERFUL opportunity for Qualified Chemist as Partner with enterprising Unqualified; Essex; established 2 years; splendid opening for N.H.I. and Optics; 2 shops, Kodak Agency at both, one recently opened, living accommodation at both; capital £300 or near. 17/32, Office of this Paper.

## APPRENTICES.

**M**R. H. C. JENKINS, Pharmacist, 190 Broadhurst Gardens, West Hampstead, will shortly have a vacancy for an Apprentice, preferably with Part I; no premium; excellent Dispensing experience; candidates must be of good address; wage given.

## NAMES AND ADDRESSES.

When sending advertisements for any of the sections in this Supplement, advertisers—as a guarantee of good faith and not necessarily for publication—should always give their names and addresses. It sometimes occurs that this rule is not followed and delay and disappointment ensue. Strict attention to this detail will be appreciated.

## SITUATIONS OPEN.

## RETAIL (HOME).

6s. for 40 words or less; 1s. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**B**ARNES.—Junior Assistant, Unqualified, for good-class Dispensing and Photographic business. Apply, stating age, height and salary required, to Feltwell & Son, 90 Church Road, Barnes, London, S.W.13.

**B**IRMINGHAM.—Qualified locum, one month, possible permanency, immediately required. Please state full particulars and salary required to Pocock, Chemist, 341 Rookery Road, Handsworth, Birmingham, 21.

**B**IRMINGHAM Suburb.—Qualified Manager (male or female) required to manage branch; smart and energetic; send full particulars, age, references, experience and salary required, Rush-ton's Pharmacies, 1088 Stratford Road, Birmingham.

**C**ROYDON Area.—Relief Assistant (either sex) required for part time (evening essential) or full time, for July and August, during holidays of regular staff; medium and N.H.I. trade. Full particulars and references to 17/48, Office of this Paper. Interview if desired.

**E.** YORKS.—Vacancy occurs for Qualified Assistant; easy hours and work; would suit elderly male or recently Qualified; state wage and all particulars first letter; permanent post to suitable applicant. 17/16, Office of this Paper.

**L**ONDON.—Young Qualified Assistant required, Counter and Dispensing. Full particulars. Briggs Cash Chemists, Ltd., 197 Hoxton Street, London, N.1.

**L**ONDON, E.—Qualified Assistant, until end of September, for holidays of regular staff; permanency for suitable man; middle-class trade and N.H.I. Dispensing; give full particulars of experience, names of references, when disengaged, age and salary expected. Apply (letter only), "Chemist," 300 Amhurst Road, London, N.16.

**L**ONDON, N.—Qualified Lady Assistant, young, required immediately; light duties, no Sunday work. Write, stating age and salary expected, F. E. L., 76 Greyhound Road, N.17.

**L**ONDON, W.—Qualified Manager required at once for easily worked branch; suit active, middle-aged man; good salary. Also locum required. Bell Wilson, Ltd., 112 Bramley Road, W.10.

**L**ONDON, W.1.—Qualified Junior Assistant, male, required for good-class Dispensing Business; excellent prospects; full particulars, age, height, experience, salary expected. 282/234, Office of this Paper.

**M**AIDSTONE.—Wanted, Junior Assistant immediately (about 22 years of age); permanency; interview essential; mixed class, quick Retail business. Please send references and photo, also salary required, to E. Green, M.P.S., 30 Reginald Road, Maidstone, Kent.

**M**ANCHESTER.—Junior Assistant required, also Apprentice. Apply Gilmans, 251 Ashton New Road, corner of Church Street, Beswick, Manchester.

**M**ANCHESTER.—Manager, preferably young, required for neglected branch shop in good working-class district; salary 4 guineas per week to begin, with definite prospects of increase. Reply, stating age, experience and when free, to 17/50, Office of this Paper.

**M**ANCHESTER.—Pharmacist to look after shop, wants working up; state salary (to start) and commission; permanency to right man; commence at once. "Hillcrest," Leicester Road, Salford, 7.

**M**ANCHESTER.—Qualified Manager, lady or gentleman, for new branch to commence within next fortnight; particulars, age, salary, experience, etc.; enclose copy of references. 18/24, Office of this Paper.

**M**ANCHESTER DISTRICT.—Junior Qualified Assistant (male); Christian, reliable, willing; state salary and usual particulars; applications not answered 7 days respectfully declined. Shepherd, 48 Bury New Road, Prestwich.

**N.** LONDON District.—M.P.S. required, either sex; good Window-dresser an advantage; easy hours can be arranged; moderate commencing salary; trustworthiness absolutely essential. Write full particulars, including age, salary, references and when available, to Chemist, BM/JPHT, London, W.C.1.



**PUTNEY, S.W.**—Junior wanted for two weeks, August 4 to 15; must be accustomed to high-class Dispensing; state experience and salary expected. 17/1, Office of this Paper.

**SHEFFIELD.**—At once, Qualified (24-26; male); for Counter, quick Cash trade, Photography; outdoors; no Sunday duty. Full particulars, experience (letter only), salary required, and enclose photo, H. G. Williams, 118 The Moor.

**SHEFFIELD.**—Qualified Manager for branch in working-class district, commence July 6; salary £3 10s., plus substantial commission and with occupation of house attached, rent and rates free; comfortable and permanent berth for anyone desiring to settle. Manton, 333 Meadowhead, Sheffield.

**SKEGNESS.**—Wanted, a competent Assistant until end of September; photo and recent references; state salary. Hall, Chemist, Skegness.

**SOUTH-EAST COAST.**—Qualified Lady Assistant (M.P.S.) wanted to commence duties at once; state salary required. Apply 18/8, Office of this Paper.

**SURREY.**—Qualified Assistant Manager required; apply by letter, stating age, experience, when free, salary required; also photo if possible. 10/47, Office of this Paper.

**WEST END.**—Qualified Man required now; good Salesman; some Dispensing; permanency; comfortable berth. Full particulars to A. Reed, 52 Wardour Street, W.1.

**YARMOUTH.**—Holiday Relief, 3 weeks, near June 26; young; either sex; hours 10 a.m.-7.30; no extra duty; Counter; 2½ hours for meals; return fare to 25s.; salary £3 10s. weekly; outdoor. Particulars, with reference, T. L. Drabble, Southtown, Great Yarmouth.

**A QUALIFIED Assistant (20-30), either sex; smart appearance; quick at Counter and Dispensing; knowledge of Photographic; capable of taking charge; write or 'phone for appointment. Slaughter's (Chemists), Ltd., 351 High Road, Ilford. Ilford 0998.**

**A QUALIFIED locum, lady or elderly gentleman, from August 17 to 31; two assistants kept; must be honest and sober. Apply, stating wage, which must be moderate, to Chemicus, 9 Thurlstone Road, West Norwood, S.E.27.**

**ASSISTANT, Unqualified, preferably young lady, in old-established country business, for light N.H.I. Dispensing, Toilet, Counter, etc. Apply, with photo if possible, to R. Abrey-Roper, The Pharmacy, Dunmow, Essex.**

**ASSISTANT, Unqualified, young, either sex, for season; must be accustomed to good-class Counter and Photographic; full particulars and photograph if possible in first letter, also salary required and when available. Worth, Bude, Cornwall.**

**AT ONCE.**—Young, Unqualified Season Assistant; good Window-dresser and used to good-class Retail, Dispensing and Photographic. Apply, with full particulars of experience, age, height, salary, etc., with photo (returnable), to Wilson Hill, Chemist, Westgate-on-Sea, Thanet.

**CAPABLE Junior Assistant, Unqualified, required at once for good-class business; one used to Dispensing and with good knowledge of Photography. Apply with full particulars, age, height, salary required, giving references to Smalleys, Chemists, 6 and 8, Carr Street, Ipswich.**

**CAPABLE Qualified Man, single or married, wanted to open Pharmacy in new district, Bristol; living accommodation over shop provided if required. Apply, with full particulars of experience, salary required, etc., to 10/38, Office of this Paper.**

**JUNIOR (male), London, S.E.25 district; salary £2 10s. weekly; accustomed to Counter and brisk N.H.I. Dispensing. State when disengaged and usual particulars to 17/49, Office of this Paper.**

**LADY, Qualified, as Assistant, in good-class Family and Dispensing business in S.E. London; comfortable permanency. State age, experience and salary required, to Bernard Phillips, Ltd., 27 Northcote Road, Clapham Junction, S.W.11.**

**LOCUM.**—Qualified Gentleman; abstainer; one recently Qualified would suit; for N.H.I. and general Counter work; August 10 to September 5, inclusive. Lowest terms to J. Marlar & Son, 49-51 High Street, Halstead, Essex.

**LOCUM, Qualified, Lady or Gent., for two weeks, June 29 to July 11 inclusive, or one week, July 6 to 11 inclusive. State terms to H. Stringer, 192 Thwaite Gate, Leeds, 10.**

**LOCUM, Qualified, required August 10-September 5 for W. and S.W. district. Also Lady Assistant, Unqualified, for August 3 to 15. Please apply in first instance by letter to A. J. Cooper, 40 Friar's Stile Road, Richmond.**

**LOCUM, Qualified, required July 11-26, inclusive. Write, stating wages, or call, G. Dyet, M.P.S., 404 Essex Road, N.1.**

**MANAGER, Qualified, for branch business in residential London suburb. Apply, stating full particulars of age, experience and salary required, to 18/16, Office of this Paper.**

**MANAGER.**—Qualified, for Cash Retail Business; Yorks, West Riding; required in August; permanency; excellent living accommodation; good prospects to right man. Full particulars, references, etc., to Guest, Chemist, Coalville.

**PERMANENCY, Qualified elderly gentleman, or lady, for light duties; good Dispenser. Apply Mrs. Edgar Wilson, 356 Essex Road, Islington, N.1.**

**QUALIFIED and experienced man to manage good Family Dispensing and Photographic business, S.W. London; 4-room flat, kitchenette and garden. Apply, stating remuneration required on salary and commission basis, 17/34, Office of this Paper.**

**QUALIFIED Assistant of gentlemanly appearance and address required at once. Full particulars as to age, height, experience, references, salary, and enclose recent photo, C. H. Weitou, 10 Stoney Road, Coventry.**

**QUALIFIED Assistant required, chiefly for Dispensing, until end of August. Also Qualified Lady Assistant required shortly for permanency. If not able to call, please enclose photo, state age, experience and salary required, Wallace Pring, 7 High Street, Bromley, Kent.**

**QUALIFIED Assistant required for permanency in good-class Retail and Dispensing Business. Apply, with fullest particulars, to Tilley, Droitwich Spa.**

**QUALIFIED Assistant required for small limited company, South Wales coast; duties light, except summer; full particulars age, experience, salary required in first letter; applications unanswered within 4 days respectfully declined. 17/39, Office of this Paper.**

**QUALIFIED Assistant required, Lady or Gentleman; permanency offered. Also Young Lady Unqualified Assistant. Apply with photograph and full particulars, Murrays, 14 Electric Parade, Clacton-on-Sea.**

**QUALIFIED Assistant wanted at once; must be good Counter-man. Full particulars as to age, height, experience, references, salary, to Venables, Chemist, 260 Upper Tooting Road, S.W.17, or 'phone Streatham 2443.**

**QUALIFIED Assistant (25-45) required immediately for shop 12 miles from London. Apply personally, with references, Cross, Chemists, 401 Hertford Road, Enfield Highway. If possible 'phone Enfield 1423 for appointment.**

**QUALIFIED Branch Manager (under 40 preferred) wanted. Apply, stating age, experience, salary required, to Head Office, Wm. Fox & Sons, Ltd., 109-111 Bethnal Green Road, London, E.2 (10 mins. Liverpool Street).**

**QUALIFIED Chemist, good Salesman, required to take charge branch, Harrow Road, W.10. Apply Amhlins, 319 Edgware Road, W.2.**

**QUALIFIED Chemist required at once; also Unqualified Lady Assistant with good experience N.H.I. Dispensing and Counter; permanent post. Apply by letter, stating age, experience and salary required, to Smiths, Chemists (Grays), Ltd., Dispensing and Photographic Chemists, Tudor House, Socketts Heath, Grays.**

**QUALIFIED.—Experienced Man to manage Family Business, S.W. London; one with some capital preferred, view to taking over on arranged terms. P.C.B. 208/23, Office of this Paper.**

**QUALIFIED for branch; must be reliable; either sex; immediately. C. J. Roe, Chemist, Epsom.**

**QUALIFIED Lady Assistant required immediately, with good Counter and Dispensing experience. Send particulars, age, salary, references and photo, to R. P. Bristow, Ltd., High Wycombe, Bucks. 'Phone 111.**

**QUALIFIED Lady Assistant required; smart appearance and alertness essential. Apply, in first instance, to Davies, 11 Lambeth Palace Road, S.E.1. 'Phone: Hop 3460. Interview desired.**



**QUALIFIED** Locum required for fortnight, August 17 to 29. Particulars to Manager, Junior Army & Navy Stores, Union Street, Aldershot.

**QUALIFIED** Locum with Optical qualification, August 17-29; state salary and references. Hall, 68 High Street, Reigate.

**QUALIFIED** Manager for branch on new housing estate, single preferred, permanency, N.H.I. Dispensing, etc., wanted at once. Full particulars to George Owen, Ltd., 10 and 12 South Street, Sheffield.

**QUALIFIED** Manager (30-35) required for a brisk Retail and Photographic Business in North London; good knowledge of Developing and Printing preferable; excellent flat available; suitable for a person seeking a permanent position. Apply, stating age, experience and salary required, 17/24, Office of this Paper.

**QUALIFIED** Relief Manager wanted for three months, with prospect of a permanency; state salary and all particulars; enclose photo (returnable). 16/2, Office of this Paper.

**QUALIFIED** wanted at once for busy London shop; lady or gent.; age no obstacle if capable; must have excellent reference and good appearance; send full particulars first letter; photo if possible. 14/3, Office of this Paper.

**SMART** Junior or Improver (age about 20), for City Chemist; suit Part II Student or one just out of apprenticeship; wages £2. Write first to 18 Brookfield Road, W.4.

**THE** Civil Service Stores require a Qualified Counter Assistant (lady) for City branch. Write, giving fullest details of experience, to Staff Manager, 425 Strand, W.C.2.

**UNQUALIFIED** Assistant (under 25) wanted for season, mid-July to September; knowledge of Photography essential. Withers, Chemist, 45 Rosemary Road, Clacton-on-Sea.

**UNQUALIFIED** Assistant, young, for business in busy thoroughfare in S.W. London. Apply immediately, Atkins, 53 East Hill, Wandsworth.

**UNQUALIFIED** Gentleman required mornings 9-1; commence June 29. 282/237, Office of this Paper.

**UNQUALIFIED** Junior required immediately. Reply, giving particulars of age, experience, references, salary required, when disengaged, and if possible enclosing photograph, to W. Bates & Co., Ltd., 50 Oxford Street, Southampton.

**UNQUALIFIED** Male Assistant, used to brisk Counter and N.H.I.; replies unanswered 3 days respectfully declined. Venables, 54 Fulham Palace Road (near Hammersmith Broadway).

**UNQUALIFIED** Male Junior Assistant, with knowledge of Photographic, required for season. Apply, with full particulars of experience, wages required and photo, to Stedmans (Weymouth), Ltd., 87 St. Thomas Street, Weymouth.

**UNQUALIFIED** temporary Assistant, August 4 to 15; state age, salary required, etc., by letter only. Piper, The Wolsey Pharmacy, St. Nicholas Street, Ipswich.

**VACANCIES** in London and South of England for Unqualified Assistants; good conditions; permanencies to suitable applicants. Apply, giving full particulars, to Retail Staff Manager, Timothy Whites & Taylors, Ltd., Chandos Street, Portsmouth.

**WANTED** at once, temporary Manager or locum, Lady or Gent., Qualified; exact length of engagement indefinite, but not be less than one month. H. E. Graham, Ltd., 22 Burlington Street, Bolton.

**WANTED** by the 29th, a Qualified Junior for good-class Dispensing and Retail. Full particulars to Bone, Chislehurst.

**WANTED** for immediate engagement, Qualified Assistant for good-class business with Photographics; applicant must be a good Salesman, courteous in manner and thoroughly competent and trustworthy. Kindly state full particulars, age, height, salary required, previous experience, etc., and enclose photo (returnable), to D. T. Evans, Ltd., Chemists and Opticians, Margate.

**WANTED**, Qualified Assistant, West Country; state age, salary required. 17/55, Office of this Paper.

**WANTED**, Qualified Lady Assistant, also Qualified Optician and Chemist. Apply, full particulars, 18/12, Office of this Paper.

**WANTED**.—Qualified Lady to take charge of Branch Pharmacy opening mid-July; must be competent Dispenser, Window-dresser and Saleswoman. Apply immediately, stating age, experience and wages required, to Managing Secretary, Sheerness and District Economical Co-operative Society, Ltd., 100 High Street, Sheerness.

**WANTED**, Qualified Manager, London; permanency; wages and commission. Apply in writing, stating full particulars and salary required, to 17/46, Office of this Paper.

**WANTED**.—Unqualified Lady and Gent. for season; seaside, Cornwall; state age, experience, salary required, and send photograph. Also Qualified Manager wanted. 282/236, Office of this Paper.

**YOUNG** Assistant wanted immediately, Part I or Hall qualification; single; must be a capable Dispenser, reliable and trustworthy; send photo, with full particulars, and state salary required. Montague T. Watson, M.P.S., Rowcroft Pharmacy, Stroud, Glos.

**YOUNG**, Unqualified Assistant (Lady) for season; please state experience, salary and references and enclose photograph, which will be returned. Thorp & Son, Chemists, Bognor Regis.

### WHOLESALE.

**A** GOOD salary and expenses offered to Representatives with genuine connections amongst Chemists and Grocers, in London and Home Counties; only first-class men who can produce undeniable references will be considered; present staff aware of this advertisement. 282/235, Office of this Paper.

**AGENTS** wanted on remunerative basis to Represent Manufacturers of high-class Cosmetics and Medical Specialities; those calling on Chemists, Hairdressers and Stores with non-competitive lines. Apply 16/1, Office of this Paper.

### GLAXO LABORATORIES LTD.

**JUNIOR ASSISTANT CHEMIST**.—Applications are invited from University graduates with Honours Degree in Chemistry for appointment to the Laboratory Staff. Age should not exceed 25 years. Preference will be given to candidates who have had some technical or post-graduate experience. Communications, giving fullest details of training and experience and stating salary required, should be addressed to the Managing Director, Glaxo Laboratories Ltd., Greenford, Middlesex.

**INTELLIGENT** Man (about 30) required in Despatch Department of Toilet Warehouse; used to controlling packers, transport and shipping; West London district. State age, experience, salary required to Box 283, c/o C. Mitchell & Co., 1 Snow Hill, E.C.1.

**QUALIFIED PHARMACISTS** (not to exceed 35) required as Representatives for Medical Propaganda work; candidates must have experience in good-class Pharmacy or actual experience as Propagandists; in first instance send photograph, stating age, salary expected and full experience. 282/230, Office of this Paper.

**REPRESENTATIVE** for Surgical Goods, Instruments, Apparatus, Dressings and Sundries required by old-established house; must be experienced, to call on Hospitals and Professional Men. Write, giving full particulars, to 282/238, Office of this Paper.

**REPRESENTATIVE** for the Midlands and Eastern Counties.—Smart Young Salesman, with good connection amongst Chemists, Druggists, Surgical Stores, etc., wanted for first-class Surgical and Medical Rubber Goods; satisfactory references required; young man with initiative and personality can build up remunerative position; liberal commissions allowed and minimum weekly earnings guaranteed. Applications to 18/9, Office of this Paper.

### PHOTOGRAPHS, TESTIMONIALS, &c.

When answering advertisements in this section applicants are strongly advised not to send (unless specially requested) ORIGINAL TESTIMONIALS or VALUABLE PHOTOGRAPHS. As can be readily understood, when an advertiser receives from 100 to 150 replies the task of returning photographs, testimonials, &c., is one of some difficulty.



**R**EPRESENTATIVES required with live connections Chemists, Stores, etc., London and Provinces, to handle advertised Proprietary; remunerative sideline; generous commission terms. Box 67, Commercial Publicity, 14 Lancaster Place, London, W.C.2.

**R**EPRESENTATIVES wanted, having established connection with Chemists, Ladies' Hairdressers and Stores, to carry an additional line; easy seller; liberal commission. 18/19, Office of this Paper.

**S**HORTHAND Typist required for London Wholesale Druggists; previous experience essential. Apply by letter, giving full particulars and salary required, to 281/211, Office of this Paper.

**S**MART Travellers wanted for Midlands, South Wales, North and Scotland to sell advertised British-made Films of high standard quality; used to pioneer work; salary, expenses and commission; state firms worked for and experience. Apply 282/228, Office of this Paper.

**S**OLE Representatives required in several districts for sale of "Prico" Fur Powder Puffs, regularly advertised to the trade; first full-page advertisement in "C. & D." will appear on June 27. Apply with full details to 282/232, Office of this Paper.

**T**HE Proprietors of Licoricine for Coughs and Colds are prepared to receive applications from established Travellers in Leeds, Hull and South Yorkshire district, Manchester and district to carry their products on commission terms. Apply Mandall & Co., Ltd., 19 Stepney Road, Newcastle-on-Tyne.

**T**RAVELLERS wanted for Scotland and South Coast for first-class Manicure Series; excellent sideline giving £10 week September to December; numerous open accounts to hand over to man prepared to develop energetically now with view to record Christmas sales. 281/212, Office of this Paper.

**W**ANTED for all parts of the country except London, Birmingham, Newcastle and South Wales, Representatives calling upon Chemists for a Household Article. Representatives also required for Grocery Shop and Bazaar Lines; commission only; state territory and present lines. 282/231, Office of this Paper.

**W**ANTED. Girl (not under 21 years) for Filling and Finishing Fine Chemicals; must have had experience. Apply 282/229, Office of this Paper.

**W**ELL-KNOWN Company of Manufacturing Chemists require two Representatives, one for Midlands, N. Wales and Eastern Counties, the other for Yorkshire, Durham and Derbyshire; applicants must possess first-class sales ability; our offer is a situation of really exceptional prospects. Apply in writing, giving fullest particulars in confidence, of career, age and present earnings, to 282/233, Office of this Paper.

**4** PART-TIME Representatives (own car) required for nationally known brand Beauty Aids; national advertising on large scale about to commence; applicants must have established connections Hairdressers, Chemists and Stores; high rate commission and every support given to live men. Write fullest particulars Box T./104, c/o Knights, 55 Chancery Lane, W.C.2.

### COLONIAL, INDIAN AND FOREIGN.

**E**AST AFRICA.—Wanted, Qualified Male Assistant; young, single; good appearance and address; accurate worker and good Salesman; satisfactory Dispensing and Photographic experience essential; Optical knowledge desirable; 4 years' agreement; second-class passage paid out and home; commencing salary £360 for first year, increasing £30 annually for remainder of engagement; if re-engaged for second tour, six months' furlough on half pay, and commencing salary £480 per annum. Apply with photo, full particulars of experience and copies of references to P.C.B. 208/20, Office of this Paper.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require Partners, Agents or Assistants or wish to Sell their Businesses, an Advertisement in this Supplement placed in every copy of "The Chemist and Druggist" should be the readiest means of helping them to attain their object. The tariff for such announcements is given on the front page of this Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

## SITUATIONS WANTED.

### RETAIL (HOME).

**2s. for 18 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)**

**A**SSISTANT; experienced Dispenser, Salesman; single, active, elderly; Unqualified; would manage Drug Stores. "Statim," 42 Fenton Road, Lockwood, Huddersfield.

**A**SSISTANT (27), Unqualified; good, all-round experience Dispensing, Counter, Window-dressing; London. "Advertiser," 44 Turneville Road, W.14.

**B**IRMINGHAM and Midlands.—Short notice Locum or Relief work; Qualified. 17/22, Office of this Paper.

**C**HEMIST, Irish qualification, 12 years' experience, practical knowledge of Optics, would do locum in City as Senior Assistant; whole or part time. P.C.B. 207/28, Office of this Paper.

**L**OCUM; Qualified; highest recommendation London Chemists; disengaged July 12 to 25 and September 6 to 26. "Pharmacist," 5 Warrior Square, Eastbourne.

**L**OCUM, Qualified; highest references; fully experienced; R.P.U.; vacant date. Jenkins, c/o Williams, Chemist, 78 Forest Road, Torquay.

**M**IDDLE-AGED, Unqualified, capable, single, experienced, ab-stainer, desires trustworthy position, manage. Alwyn, 70 Parrin Lane, Monton, Eccles, Manchester.

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